R02-16-C-008

Joseph R. Fusco, Jr.
Mayor

CITY OF ROME
Department of Community and Economic Development

Rome City Hall, 198 N. Washington Street, Rome, New York 13440-5815

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December 18, 2015

Ms. Lya Theodoratos
EPA Region 2
290 Broadway
18th Floor
New York, NY 10007

Re: City of Rome USEPA Brownfields Cleanup Grant Application
Former Rome-Turney Radiator Company Site
109 Canal Street, Rome, NY 13440

Dear Ms. Theodoratos:

Enclosed please find an application for an EPA Brownfields Cleanup Grant for the above-referenced site for the City of Rome, New York.
Pertinent application information follows:

a. Applicant:	City of Rome Rome City Hall 198 N Washington Street Rome, NY 13440-5815
b. Applicant DUNS:	0772976610000
c. Funding Requested:	.i Grant Type - Clean-up ii Federal Funds Requested - $200,000 (no cost share waiver requested) iii Contamination - Petroleum
d. Location:	The City of Rome, Oneida County, New York

e. Property Information: The Former Rome-Turney Radiator Company Site
109 Canal Street
Rome, NY 13440

f. Contacts: i) Project Director

Diana J. Samuels
City of Rome
Rome City Hall
198 N Washington Street
Rome, NY 13440-5815
dsamuels@romecitygov.com
Phone: (315) 339-7677,Fax: (315) 339-7667

ii) Highest Ranking Elected Official

Mayor Joe Fusco, Jr.
City of Rome
Rome City Hall
198 N Washington Street
Rome, NY 13440-5815
Phone: (315) 339-7677

g. Date Submitted: December 18, 2015

h. Project Period: October 1, 2016 - September 30, 2017

i. Population: .i)Population of Rome: 33,371

j. Other Factors Checklist: See Appendix 3(attached)

I am excited about the opportunity that this grant will provide for the City of Rome and look forward to a favorable response. Thank you for your consideration.

Regards,

Matthew J. Andrews

Matthew J. Andrews, Senior Planner
City of Rome
198 N. Washington Street
315-339-7628 office
315-838-1167 fax
mandrews@romecitygov.com

Appendix 3
Cleanup Other Factors Checklist

Name of Applicant: CITY OF ROME

Please identify (with an ***X***) which, if any of the below items apply to your community or your project as described in your proposal. To be considered for an Other Factor, you must include the page number where each applicable factor is discussed in your proposal. EPA will verify these disclosures prior to selection and may consider this information during the selection process. If this information is not clearly discussed in your narrative proposal or in any other attachments, it will not be considered during the selection process.

Other Factor	**Page #**
None of the Other Factors are applicable.	
Community population is 10,000 or less.	
Applicant is, or will assist, a federally recognized Indian tribe or United States territory.	
Targeted brownfield sites are impacted by mine-scarred land.	
Applicant demonstrates firm leveraging commitments for facilitating brownfield project completion by identifying amounts and contributors of funding in the proposal and have included documentation.	X Attachment D Page 8
Recent (2008 or later) significant economic disruption has occurred within community, resulting in a significant percentage loss of community jobs and tax base.	
Applicant is one of the 24 recipients, or a core partner/implementation strategy party, of a "manufacturing community" designation provided by the Economic Development Administration (EDA) under the Investing in Manufacturing Communities Partnership (IMCP). To be considered, **applicants must clearly demonstrate in the proposal the nexus between their IMCP designation and the Brownfield activities. Additionally, applicants must attach documentation** which demonstrate either designation as one of the 24 recipients, or relevant pages from a recipient's IMCP proposal which lists/describes the core partners and implementation strategy parties.	
Applicant is a recipient or a core partner of HUD-DOT-EPA Partnership for Sustainable Communities (PSC) grant funding or technical assistance that is directly tied to the proposed Brownfields project, and can demonstrate that funding from a PSC grant/technical assistance has or will benefit the project area. Examples of PSC grant or technical assistance include a HUD Regional Planning or Challenge grant, DOT Transportation Investment Generating Economic Recovery (TIGER), or EPA Smart Growth Implementation or Building Blocks Assistance, etc. To be considered, **applicant must attach documentation.**	
Applicant is a recipient of an EPA Brownfields Area-Wide Planning grant.	

CITY OF ROME, NEW YORK
U.S. ENVIRONMENTAL PROTECTION AGENCY CLEANUP GRANT
Former Rome-Turney Radiator Company Site, 109 Canal Street

V.B.1 Community Need

V.B.1.a Targeted Community and Brownfields

V.B.1.a.i Targeted Community Description

Located in the geographical center of New York State at the foothills of the Adirondacks, the City of Rome is home to over 33,000 residents. Incorporated in 1870, the growth of the City was directly attributed to historical movements including the fortification of the British Fort Stanwix during the American Revolutionary War and development of the Erie Canal in the 1790s.

Rome historically served as the industrial and manufacturing center of Oneida County. Strategically located at the confluence of the Mohawk River and the Erie Canal, the City of Rome was once considered one of the most important transportation hubs for moving goods and services from New York City and the Atlantic Seaboard to the Great Lakes. During the Industrial Revolution, Rome gained the reputation as the "Copper City" and was home to many significant metal industries such as Revere Copper, Rome Cable and General Cable. From 1950-1995, Rome was the home of Griffiss Air Force Base, a former United States Air Force installation, that served as a significant regional employer.

Much of Rome's industry was concentrated in the downtown core and immediate vicinity, as well as along the Erie Canal. Many of these industrial areas were directly adjacent to residential neighborhoods. As Rome's manufacturing industries collapsed from the late 1960s through the early 2000s, the City was left with a number of contaminated and environmentally hazardous vacant and abandoned industrial sites, including Griffiss Air Force Base, which was declared a Superfund Site in 1995.

The City saw these former industrial sites as opportunities for new investment and development in downtown, with the goal of attracting new employers, residents and visitors. The City of Rome has a successful track record of bringing brownfield and underutilized sites back into productive use. The City of Rome has successfully participated in the New York State Department of Environmental Conservation (DEC) Environmental Restoration Program to remediate a number of sites throughout the community. In 2006 the City was one of the first communities in New York State to receive Brownfield Opportunity Area (BOA) funding through the Department of State to develop a community-based revitalization plan for a 513-acre area, including the downtown, former Rome Cable site and the Rome-Turney property, which is the subject of this grant request. This study is known as the Downtown Rome BOA. The Downtown Rome BOA (Step 2 - Nomination Study) was completed in 2013 and the City is currently completing implementation strategy activities in accordance with funding from the BOA for Step 3 of the three-phase program.

The former Rome-Turney Radiator Company site (herein referred to as the Rome-Turney site) located at 109 Canal Street was chosen as a strategic site in the Downtown Rome BOA due to its high visibility at the intersection of Black River Boulevard and Erie Boulevard, its proximity to the Fort Stanwix National Monument (part of the National Park System), and its central location

in downtown. The site is in a critical location as it connects residents and visitors from Bellamy Harbor Park along the Erie Canal north to residential neighborhoods, Fort Stanwix and downtown.

Surrounding uses include a mix of residential, industrial and commercial uses. The Erie Boulevard corridor, on which the Rome-Turney site resides, is a major vehicular gateway into the City that has suffered from a lack of identity and an incompatible range of uses. As a gateway corridor into downtown, with the Rome-Turney site serving as a visible bookend, the corridor has been identified for streetscape/traffic calming improvements and green infrastructure enhancements. The cleanup and redevelopment of the site – which has sat as a visible reminder of what the City once was - would be a prominent success story that is likely to spur other complementary investment on surrounding properties.

V.B.1.a.ii Demographic Information

	City of Rome	Oneida County	New York State	National
Population	33,375	274,878	19,695,680	311,536,594
Unemployment	6.4%	8.0%	5.9%	5.3%
Poverty Rate	16.7%	16.5%	15.3%	11.3%
Percent Minority	10.2%	13.7%	32.4%	36.7%
Median Household Income	$42,832	$48,931	$58,003	$53,046
Other				
*All data derived from the 2009-2013 American Community Survey				

V.B.1.a.iii Description of Brownfields

Ninety-two (92) parcels (10%) within the BOA were identified during the Downtown Rome BOA as brownfields. The known environmental issues from these sites include petroleum and chemical contamination, impacting not only soils but also ground and surface water. Over half of the 513-acre BOA study area has some overriding environmental concern attributable to the area's history as the City's manufacturing and industrial center.

The Rome-Turney site is currently not being utilized and includes several structures. It was owned and operated by the Rome-Turney Company from 1905 until the mid-1990s as a manufacturing plant for radiators. In June 1988, it was given a petroleum Spill No. (8802056) when a release of petroleum from fuel storage tanks was discovered and reported to the New York State Department of Environmental Conservation. Subsequently, it has been used for light manufacturing and storage by several different companies. Because of past use and known petroleum contamination, reuse of this site in its current condition is limited and is a detriment to the revitalization of the area.

V.B.1.a.iv Cumulative Environmental Issues

The City of Rome, because of its history of manufacturing, has many brownfield sites. The EPA's Enviromapper indicates that there is a high level of lead paint and other contaminants, it is near a water discharger and a Superfund site (the Griffiss Air Force Base site), and there are high levels of ozone disturbance in the City. All of these are at a higher level than the state or national

levels. All of this contributes to air, water and land pollution and have a cumulative environmental effect.

V.B.1.b Impacts on Targeted Community

The high proportion of brownfields (10%) in the Downtown Rome BOA has had a cumulative impact on the larger Rome community. The Oneida County Health Department has identified a number of environmental and socioeconomic issues specifically related to brownfields including lead poisoning in children who come into contact with chipping paint in older homes and buildings, and playing in contaminated soil. One of the very reasons that the Rome-Turney site is unused today is the petroleum contaminated soils and the health risk they pose from dermal contact, inhalation of dust or ingestion.

Additionally, soil contaminated with lead and other pollutants, such as petroleum, pose risks, particularly for refugees, who often grow their own food using traditional farming practices without knowledge of site-specific soil conditions in their new communities. Sites with contaminated soil are woven throughout the fabric of the City and the City of Rome has welcomed over 250 Burmese refugees since 2008. It is imperative that the City continue to remediate contaminated sites in and around neighborhoods to better accommodate sensitive and at-risk populations whose livelihoods depend on the land.

The Oneida County Health Department developed a Community Health Assessment (CHA; 2013-2017) that identifies key health needs and issues in an effort to develop and implement policies to improve the overall health of the County's communities. The County conducted extensive outreach and participation with local health care providers, educators and practitioners to identify the top issues facing the health and wellbeing of the community. Participants consistently emphasized economic development as the prime challenge with a specific focus on lack of employment resulting in economic instability and social insecurity. Even though these are not primary health factors, given that job security and economic wellbeing contribute to health issues and are secondary factors. Therefore, each site that is underutilized and not contributing to a healthy economy, including the Rome-Turney site, become part of the reason for health concerns.

The U.S. Center for Disease Control and Prevention (CDC) indicates that Oneida County ranks in the least favorable quartile when compared to surrounding counties for a number of indicators including the number of older adults with asthma and depression, and residents living near highways. With an increasing aging population, the City’s goal is to create a safe and secure pedestrian environment, and near destinations such as shops, to help older adults remain active and engaged in the community.

V.B.1.c Financial Need

V.B.1.c.i Economic Conditions

The City of Rome's population has been declining since the 1970s with the relocation and outsourcing of manufacturing jobs, as well as the closing of Griffiss Air Force Base in 1995. The impact on the mental and physical health of residents was resounding as school numbers declined, businesses lost customers, and real estate prices plummeted. Griffiss Air Force Base

employed over 5,000 people and represented 30% of the City's economic base. It served as a source of pride for the City, and was directly tied to the success of surrounding businesses.

As a result of the economic downfall, the City experienced a drop in population greater than 30% from 44,350 in 1990 to 34,950 in 2000 (U.S. Census Bureau). The City's population has remained around 33,000 over the past decade, while state and national populations have experienced growth from 2% - 12%. The age distribution in the County is heavily skewed toward an older population as compared to the State average, with significantly more people age 80 and older in the County as percentage of the overall population. Recent data trends also indicate that the City may continue to experience a rise in 20-30 year olds as this cohort increasingly prefers to live in urban environments. The changing demographics has resulted in a shift in the demand for different types of housing, such as senior apartments, as well as studios and different types of amenities to accommodate the younger, millennial population.

The loss of the manufacturing industries and air force base has impacted the physical environment. Many former industrial sites, including the Rome-Turney site, have been left vacant, underutilized and contaminated which has been a significant barrier to redevelopment.

The purpose of this grant is to offset the costs associated with remediating a strategic redevelopment site in the City so that it can be repurposed and put back on the tax roll. As a new mixed-use commercial and residential development, the Rome-Turney site would stimulate redevelopment activity along the Erie Boulevard corridor, providing diversity in housing stock and contributing to a healthy environment and quality of life for residents now and in the future.

V.B.1.c.ii Economic Effects of Brownfields

A direct result of the loss of manufacturing and associated job opportunities is an overall population decrease in the City of Rome and Oneida County. Since the last Census, the State's population has increased and is expected to continue to grow approximately 0.30% annually, with the national population projected to grow 1.23% annually. The median household income for Rome is more than $10,000 under the national median and the poverty rate is 16.7% as opposed to a national rate of 11.3%. The unemployment rate for Oneida County is 8.0% as opposed to a national rate of 5.3% and the age distribution in Oneida County is heavily skewed toward an older population as compared to the State average. The decline of overall population numbers, coupled with an aging population, has resulted in higher poverty and unemployment rates. This places a disproportionate burden on the city for services such as fire and police protection as well as trash collection and general maintenance. The City does not have extraneous funds to utilize for site cleanup activities.

It is not a coincidence that downtown Rome, the historic center of Rome's business and manufacturing, is also the location of the Downtown Rome BOA. The high proportion of brownfield properties has led to higher vacancy and underutilization rates, which have resulted in a reduced tax base and reduced property values because of perceived and actual environmental issues. There is little interest by developers to purchase sites because of the existing environmental constraints and associated increased costs and timeframes for redevelopment. The

cost to the city to obtain a number of brownfield and abandoned properties, in particular the Rome-Turney site, has greatly affected the city's ability to fund cleanup efforts.

V.B.2 Project Description and Feasibility of Success

V.B.2.a Project Description

V.B.2.a.i Existing Conditions

The 1.4-acre Rome-Turney site is the largest site along the Erie Boulevard corridor that is currently available for reuse. About 2/3^{rds} of the site is covered by several buildings dating back to the 1930s. The remainder of the property is covered with asphalt. Little green or open space area exists. As stated previously, the site is contaminated with petroleum and has a New York State Department of Conservation Spill No. (8802056). The concentration of petroleum contamination is in two areas: one at the north of the site near two wings of the building and one at the south of the site near the entrance from Canal Street. The contaminated soil is estimated to be approximately 2,000 tons. The site is currently not being used.

Given its prime location near the intersection of Erie and Black River Boulevards and proximity to the City's Cultural District, it has been identified as a potential site for an arts manufacturing operation (such as maker space), low intensity industrial, or live-work spaces for local artists. The cleanup of this property could be the catalyst for the redevelopment of the Erie Boulevard corridor, which would include streetscape improvements, green infrastructure improvements, and traffic calming measures, as well as increased commercial, industrial and residential uses on the other unused and vacant properties. These would be in keeping with the recommendations in the Downtown Rome BOA and Step 3 Implementation Strategy.

V.B.2.a.ii Proposed Cleanup Plan

Historically the site was the location of the former Rome-Turney Radiator Company that manufactured radiators from 1905 through the mid-1990s. There was a release of petroleum that was discovered in June 1988 and reported to the New York State Department of Environmental Conservation (DEC; Spill No. 8802056), which resulted in petroleum contaminated soil and groundwater. The locations of contamination are concentrated in two source areas on the site.

As summarized in the draft ABCA, which is included as Attachment F, three remedial alternatives were considered. The three alternatives are: 1) No Action with Institutional and Administrative Controls; 2) Removal with Off-Site Disposal; and 3) In-Situ Treatment. The three remedial alternatives were evaluated based on: Overall Protection of Human Health and the Environment, Compliance with Soil Cleanup Objectives (SCGs), Long-term Effectiveness & Performance, Reduction of Toxicity, Mobility, or Volume, Short-term Effectiveness, Implementability, Cost, Land Use, Green Sustainable Remediation, and reasonably foreseeable changing climate conditions.

Based on the results of the analysis, Alternative 2 is considered the most technically feasible and cost effective alternative, which achieves cleanup of the petroleum source areas, protection of human health and the environment with ease of long-term maintenance. Alternative 2 includes the removal of Petroleum Impacted Soils in source area with limited groundwater removal and backfill with restoration of ground surface. This alternative includes:
1) Implementation of a Citizen Participation Plan.

2) Performance of a Community Air Monitoring Program for particulates and volatile organic carbon compounds/odors.
3) Achievement of petroleum source area cleanup to address the current DEC petroleum spill through implementation of a source area soil excavation with limited groundwater removal and long-term Engineering and Institutional Controls required pursuant to a Site Management Plan (SMP) and Environmental Easement (EE).
4) Collection and analysis of confirmatory end-point samples in the petroleum source soil removal areas to determine the performance of the remedy with respect to attainment of applicable levels of remediation.
5) Import of materials to be used for excavation backfill in compliance with remediation requirements and in accordance with DEC- DER-10 guidance. Potential re-use of site soil as backfill and recycled crushed concrete in accordance with DEC- DER-10/DER-34.
6) Excavation and removal of petroleum impacted soils with disposal at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal. Sampling and analysis of excavated media as required by disposing facilities and DEC. Appropriate segregation of excavated soils and materials on-site.
7) Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID.
8) Performance of all activities for the cleanup, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
9) Submission of an approved SMP for long-term management of residual contamination, including plans for operation, maintenance, monitoring, sampling, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency.
10) Recording of an EE that includes a listing of Engineering Controls and a requirement that management of these controls must be in compliance with an approved SMP; and Institutional Controls including prohibition of the following: (a) use of groundwater without treatment rendering it safe for the intended use; (b) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (c) higher level of land usage without EPA, DEC and NYS Department of Health approval.

The excavation activities will extend to approximately 12 to 15 feet below the ground to remove the accessible portion of the petroleum source area soils. This proposed cleanup plan will reduce potential short-term and long-term exposures to the on-site contaminants by removing the impacted soils from the site. This will significantly eliminate potential exposure to pathways. The removal of the petroleum source soils also reduces the volume and toxicity of the most contaminated soils and the potential of migration. While low level contaminants will remain at the site, the remedial objectives will be met to the extent practicable in a cost effective manner, while being protective of human health and the environment. Alternative 2 will also provide an effective long-term and permanent remedy for the site.

V.B.2.b Task Description and Budget Table

b. Task Description

The City of Rome plans to complete the following specific tasks with the proposed budget:

Task 1-Community Outreach: We have budgeted $4,500 of the requested funding for contractual expenses related to community outreach, education and citizen participation. Bergmann Associates, the Consultant for the City of Rome, will present at community meetings

to provide updates on cleanup activities at the Rome-Turney site. They will assist the City with issuing public notices and newspaper articles to keep the local community informed of environmental cleanup activities and results. Part of the community outreach work will include announcements on the city website to inform residences and businesses that adjoin the site. Costs associated with community involvement activities planned for the project include:

- Citizen Participation Plan – outlines outreach activities over the life of the grant ($1,500).
- DEC and City of Rome – meetings will occur quarterly ($1,000).
- Public Meeting – facilitate 1 to 2 meetings to disseminate project activities and environmental cleanup results ($1,000).
- Preparation, Printing, and Distribution of Fact Sheet ($500).
- Public Notices and Comment Periods ($500).

Included in the contractual costs above are travel ($1,500) and supply expenses ($3,000) under the grant application. Travel funds will allow the Consultant staff to attend regional DEC meetings and other City public meetings associated with sustainable redevelopment of brownfield properties, including the Rome-Turney site. Supply funds will allow the Consultant and City to purchase supplies needed to support community outreach, such as printing brochures, conceptual renderings, and plans.

Task 2 – Cleanup Planning: Cleanup planning will include finalizing the ABCA document, finalizing the RAWP document, preparing the Health & Safety Plan, and assisting the City with contractor bid requirements. Cleanup Planning costs are anticipated to be $6,000 and include the following:

- Finalization of ABCA document, including incorporation of comments from public notice and regulatory review ($2,000).
- Finalization of RAWP document, including incorporation of comments from public notice and regulatory review ($1,500).
- Prepare Health & Safety Plan ($1,000).
- Assist City with contractor bid requirements ($1,500).

Task 3 – Site Cleanup: We will use the majority of the grant funds for the actual site cleanup activities. Based on the Site Investigation (Phase II ESA) of the property and the findings from the draft ABCA, we plan the following remedial activities:

- Soil Excavation (non-impacted): Estimated 600 tons by Contractor. Cost is $5,100.
- Transportation and furnish Granular Backfill (clean imported back fill): Estimated 2,000 tons by Contractor. Cost is $46,000.
- Excavation and Disposal of Soil (contaminated soil disposal): Estimated 2,000 tons of petroleum contaminated soil for disposal at permitted landfill by Contractor and City. Cost is $132,000.
- Soil Compaction: Estimated 2,000 tons of backfill, compacted by contractor. Cost is $4,000.
- Soil Compaction Test: Estimated 1 proctor test and 10 compaction tests by Contractor. Cost is $2,500.
- Groundwater Containment: Estimated rental for a 20,000 gallon tank by Contractor. Cost is $2,400.
- Groundwater Disposal: Estimated disposal of 20,000 gallons by contractor. Cost is $6,000.

- Field Monitoring of Remediation Work done by Contractor: Estimated 4-week duration by Consultant. Cost is $11,000.
- Documentation and Remediation Report: Prepared by Consultant. Cost is $7,500.
- Groundwater Monitoring (confirmatory poet-remediation) Report: Prepared by Consultant. Cost is $6,500.
- Confirmatory Soil Samples and Field Expenses: By Consultant. Cost is $6,500.

City cost share in Task 3 is included in the excavation of 2,000 tons of petroleum impacted soils and transportation of 2,000 tons of petroleum impacted soil to the permitted landfill. The City cost share is estimated at $40,000 for these tasks. The EPA costs would be $189,500 ($158,000-Contractor and $31,500-Consultant).

Budget Table

Budget Categories	**Project Tasks**			
	Task 1 Community Outreach	Task 2 Cleanup Planning	Task 3 Site Cleanup Activities	Total
Personnel				
Fringe Benefits				
Travel	$1,500			$1,500
Equipment				
Supplies	$3,000			$3,000
Contractual		$6,000	$189,500	$195,500
Total Federal Funding (Not to exceed $200,000)	$4,500	$6,000	$189,500	$200,000
Other (specify)				
Cost Share	$0	$0	$40,000	$40,000
Total Budget	**$4,500**	**$6,000**	**$229,500**	**$240,000**

V.B.2.c Ability to Leverage

The City of Rome has successfully leveraged funds for many projects in the past. Funds from the NYS BOA Program have been used for all environmental investigations for this site including the Phase I Environmental Site Assessment, the Site Investigation Report (Phase 2 equivalent), the draft ABCA and the draft Remedial Action work Plan (RAWP). BOA funding also facilitated completion of the Downtown Rome BOA and the City is currently developing the Step 3 BOA Implementation Strategy for the BOA. The cleanup of the Rome-Turney site would be an instrumental and critical implementation activity as outline in the BOA documents. Funds are being leveraged for additional community engagement, implementation of supportive activities, economic pro formas for the site, market analyses and conceptual design for enhancement to the Erie Boulevard corridor that complement the proposal for the redevelopment of the Rome-Turney Site. Documentation indicating these leveraged funds from the NYS BOA Program is included in Attachment D.

V.B.3 Community Engagement and Partnerships

V.B.3.a Plan for Involving Targeted Community and Other Stakeholders and Communicating Project Progress

The City of Rome Department of Community and Economic Development is overseeing the planning and revitalization process for the Downtown Rome BOA. A significant part of the planning process is actively engaging various stakeholder groups and members of the public, as has been done since the BOA planning process began in 2007. To ensure that community members have a variety of forums and opportunities for participation, a Community Involvement Plan (CIP) was developed. The CIP is a guide to involving the community in the planning process which is intended to be flexible as the process unfolds. The community outreach process adopted for the Downtown Rome BOA will be integrated into the EPA cleanup grant for the Rome-Turney site. A detailed description of each of the public outreach activities follows below.

In addition to internal staff meetings, the City is working with a Steering Committee comprised of key stakeholders, community members and City staff. The Steering Committee is charged with providing feedback and guidance for the revitalization vision and recommendations. Additionally, the City is conducting interviews and meetings with key stakeholders, such as land owners, business owners, non-profit organizations and other interested parties within the BOA. This helps gain insight into desired goals for specific sites and within the BOA boundary as well as the identification of any constraints that may affect re-use potential.

A variety of forums have been developed to engage residents and the general public. Public workshops and meetings that are hands-on and interactive allow the project team to educate the community regarding the purpose and potential benefits of the project. Due to varying levels of planning expertise, socioeconomic backgrounds, and interests amongst the City's population, public workshops will continue to be held in a range of locations, such as the Rome and Art Community Center, schools, and City Hall to accommodate as many community members as possible. The City will also host public hearings consistent with open meetings laws. To ensure that members of the public have accurate and up-to-date information, the City is developing a project website for the BOA that will provide the status of cleanup activities and upcoming events.

V.B.3.b Partnerships with Government Agencies

The New York Department of State (DOS) and the Department of Environmental Conservation (DEC) funds, administers and oversees the state's Brownfield Opportunity Area (BOA) Program. The City of Rome has a long working history with the DEC and will continue to coordinate throughout the cleanup process. In addition to coordinating on the Step 2 and Step 3 of the BOA program, the City of Rome has been working with the DEC in the Petroleum Spills Program and received approval for the Work Plan for the investigation that lead to the preparation of the Site Investigation Report. The City will continue to coordinate with the DEC throughout the cleanup process. As was mentioned in III.C.4.a-Cleanup Oversight, this site is part of the DEC Petroleum Spills Program where the DEC would provide oversight for this cleanup. The City of Rome will continue to work closely with the DEC to the extent possible, the goal of achieving "pre-spill conditions". The DEC is the state environmental authority that has issued the letter of support, which can be found in Attachment B.

Oneida County Health Department is a county department that is committed to promoting and protecting the health of Oneida County residents. The City of Rome will work closely with the Health Department to ensure the health and safety of surrounding residents and workers on-site during the cleanup. All precautions will be made to limit exposure to the contaminants whether by dermal contact, ingestion or inhalation.
Oneida County Soil & Water Conservation District is a county agency that provides leadership in the development, wise use and management of soil, water and related resources in a way that will restore, enhance, protect and maintain their quality and quantity for the benefit of Oneida County and its residents. The City of Rome will work closely with the District as the contaminated soil is removed and replaced with the recycled crushed concrete.
U.S. Department of the Interior-National Park Service (NPS) manages the Fort Stanwix National Monument which is a United States Historic Site located immediately adjacent to the Rome-Turney site. Fort Stanwix played a strategic role in both the French and Indian War and the American Revolution. Given the Fort's proximity to the site and that the revitalization of the Erie Boulevard corridor will benefit both the target site and Fort Stanwix, the NPS has been and will continue to be a key stakeholder in the City's plan for reuse and revitalization.

Letters of support from these agencies can be found in Attachment C.

V.B.3.c Partnerships with Community Organizations
The City of Rome has developed strong partnerships with many community organizations and anticipate that they will continue to play a role in the revitalization process as they have since 2007. They are as follows (Letters of support are in Attachment C.):

Rome Chamber of Commerce is a volunteer organization of business, professional, industrial and community leaders committed to the promotion of business growth and economic development and to the provision of programs that will meet the evolving needs of the community. The Chamber of Commerce is a key stakeholder in the planning process for the Downtown Rome BOA. Representatives from the Chamber inform the plan by providing insight into local needs, business development, and opportunities for economic development in the community.
Rome Community Brownfield Restoration Corporation (RCBRC) is an economic development agency focused on remediating and revitalizing brownfield sites in the City of Rome and therefore is a key stakeholder in the planning and revitalization process. The RCBRC has in recent history worked with the city on the revitalization of the Rome Cable Site, another brownfield site, which shut down in the mid-1990s and had a significant detrimental impact on the local economy. The RCBRC and Rome have a good success record with this site which we anticipate will carry through for the Rome-Turney site.
Rome Historical Society was chartered by the State Board of Regents in 1936. Their goal is to foster the study of the historic city of Rome, New York and to share that history through public and outreach programs and education. As a stakeholder, the Rome Historical Society is working with the Downtown Rome BOA project team by providing the history of key sites within the Study Area and opportunities for the preservation of historic buildings and sites.
Oneida County Industrial Development Authority (OCIDA) is a public benefit corporation of New York State offering financial incentives for hands-on manufacturing and other eligible projects through payments in lieu of taxes, tax-exempt industrial development bond financing,

taxable industrial revenue bond financing, mortgage recording tax relief and sales tax relief. Since the have a keen interest in the redevelopment and revitalization of the City of Rome, they are a stakeholder in the planning process for the Rome-Turney site.

V.B.4 Project Benefits

V.B.4.a Health and/or Welfare and Environment

V.B.4.a.i Health and/or Welfare Benefits

Receipt of EPA funds will facilitate the remediation and redevelopment of the Rome-Turney site, which was previously discussed in the Community Needs section. The property was identified through the NYS BOA program planning process as a strategic site that will act as a catalyst for the redevelopment in downtown Rome. The removal of petroleum contaminated soils will have a positive impact on the health of the community in very particular ways.

The removal of the petroleum contaminated soils will reduce the potential for exposure to anyone on-site to the health risks associated with dermal exposure, inhalation of dust or ingestion. Although this site is not currently slated for a reuse that would include a garden, the possibility remains that this could happen in the future. In the draft ABCA that was prepared by Bergmann Associates (dated December 7, 2015), the alternative that was recommended includes soil and ground water testing after the remediation. If the site were to be home to a small garden, there would be safeguards in place to make sure that the soil and groundwater are suitable for that use.

The Oneida County Health Department having developed a community health survey that was explained in Section V.B.1.b-Impacts on Targeted Community, concluded that lack of employment opportunities in the City has resulted in economic instability and social insecurity and that these are more than economic factors when it comes to the health and welfare of the community. Job security and economic well-being contribute to individual's health issues. Therefore, the economic benefits from the redevelopment of the Rome-Turney site can also be translated into health and welfare benefits for the community.

The Rome-Turney site borders Erie Boulevard and is impacted by a high level of vehicular traffic and other issues associated with being a minor highway and major gateway into the city. The U.S. Center for Disease Control and Prevention lists living near a highway as an unfavorable indicator. Part of the redevelopment plan as outlined in the Downtown Rome BOA, is a plan to implement traffic calming improvements and incorporate streetscape enhancements along the corridor, which would include lighting, a raised central median with plantings and a wayfinding system that integrates the corridor's historic importance in Rome. The redevelopment of the Rome-Turney site would be part of this bigger plan and would be a benefit to the health and welfare of the community.

V.B.4.a.ii Environmental Benefits

As discussed in the Community Needs section, the petroleum contamination and other cumulative environmental issues at the Rome-Turney site have limited the uses on this site since the spill was discovered in 1988. The petroleum contaminated soils have led to the contamination of the groundwater. Other environmental issues, such as the high level of lead paint and other pollutants in the area affect not only the water quality, but the air quality as well.

The proximity of the superfund site and the water discharger further exacerbate environmental challenges. The cleanup and revitalization of this site will allow for soils that can be used for normal daily activities. The soil removal and replacement with clean fill will also have a positive impact on the groundwater both at the site and in the surrounding environs. Once the contaminated soils are removed, the threat of contaminated dust from the site will be eliminated.

V.B.4.b Environmental Benefits from Infrastructure Reuse/Sustainable Reuse

V.B.4.b.i Policies, Planning, or Other Tools

The City of Rome Zoning Ordinance, developed in conjunction with the City of Rome Comprehensive Plan, was adopted in April, 2004. In 2013, the City of Rome received a $75,000 New York State Energy Research and Development Authority (NYSERDA) grant through the Cleaner, Greener Communities (CGC) Program which encourages communities to develop and implement regional sustainable growth strategies. The purpose of this grant is to update the Comprehensive Plan and Zoning Code to integrate smart growth principles and LEED Neighborhood Development into the City's Master Plan, regulatory processes, subdivision regulations, and supplemental design standards.

The zoning update will be developed as a Form-Based Code (FBC) that will encourage compact, mixed-uses in an effort to create a more sustainable community. Specifically, the updates will include incentives for new development, as well as flexibilities for the retrofitting of existing development, to incorporate more sustainable development techniques.

The update of the City's ordinances and Comprehensive Plan closely align with the proposed plan for the Rome-Turney site. As previously outlined in Section V.B.1.a.i- Targeted Community Description, this site is located along the Erie Boulevard Gateway subarea of the Downtown Rome BOA which is envisioned as a mixed use corridor. The redevelopment of the site as a mixed-use commercial and residential development supports the sustainability goals listed above by providing the following outcomes:

1. Adaptively re-using a site that is located in the heart of downtown;
2. The site will include new commercial and residential opportunities which are desired by the community and will support the changing demographics, including an aging and millennial cohort;
3. Utilizing existing infrastructure, including existing roadways, to support infill redevelopment;
4. Mitigate environmental conditions through remediation strategies that would improve water quality and introduce new green space, such as street trees and plantings;
5. Improve employment opportunities for local residents through business development;
6. Reduce blighted vacant parcels and improve the quality of life for residents; and
7. Minimize exposure to hazardous substances.

V.B.4.b.ii Integrating Equitable Development or Livability Principles

The cleanup and redevelopment of this site would incorporate and promote many of the HUD-DOT-EPA Livability Principles. The redevelopment of the property will enhance economic competitiveness by the creation of a new business in this location. The redevelopment of this property will support the existing community by the recycling of a vacant parcel and which increases the efficiency of public works investments and safeguards rural landscapes by focusing

development on infill parcels. This redevelopment will also show the city's value of the existing neighborhood. This will help further promote that this is a healthy, safe and walkable neighborhood.

V.B.4.c Economic and Community Benefits (long-term benefits)

V.B.4.c.i Economic or Other Benefits

Redeveloping the Rome-Turney site will have long-term economic and non-economic outcomes that impact the financial, physical, and environmental health of the City of Rome. The adaptive reuse and redevelopment of this property, once it has gone through the cleanup process, will move it from the category of unused parcel to a taxable commercial use. The property tax revenue collected from this site will allow the City to allocate funds towards parks and recreation, capital improvements and additional public resources. Additionally, it serves as infill redevelopment, utilizing the existing building footprint, and minimizing the impact on valuable greenspace.

In addition to improving the local tax base and serving as infill redevelopment, the desired types of uses for this sites includes commercial mixed use on the first floor with residential units/studios/office space above. A market analysis developed for the Downtown Rome BOA indicated that there are several industries with leakage that have potentially enough customers to warrant opening a new establishment. Industries, such as a full-service restaurants, are experiencing a $100 million retail gap, while clothing stores and electronics and appliance stores both experience a retail gap around $13 million. The City could potentially accommodate 236 new restaurant businesses, 13 clothing stores, 12 electronic stores as well as 7 grocery stores. Commercial space could range from niche, local boutiques to national chains and retailers to support a range of ages, backgrounds and interests. The building could support approximately 20,000 square feet of commercial space on the lower level.

Changing demographics in the City have impacted housing trends. It is estimated that the Rome-Turney site could accommodate up to 20 new 1,000 SF dwelling units (total of 20,000 SF of residential space). The City has not experienced new market-rate housing growth in over 30 years, which makes it challenging to support both the existing population and attract new residents. Due to the lack of alternate housing types, entrepreneurs, small business owners, and professionals are forced to live in neighboring communities such as New Hartford and Marcy. The redevelopment of the Rome-Turney site presents an opportunity to create more housing options for younger, educated workers who are accustomed to different types of amenities and housing quality.

Additionally, there is a need for senior housing. With a high percentage of older residents, the need for different housing options is becoming more acute. Housing for older residents will help preserve the current community, encourage residents to be able to age in place and still meet their needs as they get older. Opportunities to live downtown where amenities are within walking distance will help accommodate and retain this population.

V.B.4.c.ii Job Creation Potential: Partnerships with Workforce Development Programs

The City of Rome does not provide a local brownfields job training grantee. The Oneida County Office of Workforce Development offers programs for young people, such as summer youth employment, as well as career opportunities through local businesses, schools and organizations. In addition to the Oneida County Office of Workforce Development, Workforce Solutions, the Workforce Investment Board (WIB) of Herkimer, Madison and Oneida Counties, is a collaborative effort among many agencies, organizations and programs to assist job seekers, workers and businesses in the three counties. Workforce Solutions also provides job workshops and trainings, as well as resume writing and interviewing preparation for job seekers.

V.B.5 Programmatic Capability and Past Performance

V.B.5.a Programmatic Capability

The City of Rome Department of Community and Economic Development maintains staff that is able to ensure the timely and successful expenditure of funds and completion of all technical, administrative and financial requirements associated with the project and grant. Key staff on the project include the following:

- **Project Manager - Diana Samuels, Planning Assistant**: Ms. Samuels has been with the City of Rome for 12 years, two of which have been in the Department of Community and Economic Development. Ms. Samuels is overseeing the Environmental Restoration Program (ERP) grants for sites located throughout the City, and will be the Project Manager on this grant. Her previous experience was in the payroll department.
- **Matt Andrews, Senior Planner**: Mr. Andrews has been with the department for 6 years in the role as a Senior Planner, and is responsible for administering Site Plan documents, oversees the development of community plans, such as the Zoning and Comprehensive Plan updates, and works with the Planning Board through the Site Plan Review process. Mr. Andrews also oversees both of the City's Brownfield Opportunity Area projects and serves as a liaison between the City and community for planning efforts.
- **Edward Seelig, Community Development Specialist**: Mr. Seelig has been with the Department of Community and Economic Development for 16 years and brings significant banking and financial experience to the department. Mr. Seelig manages the fiscal responsibilities associated with the City's grants including paying vendors and reimbursements. Prior to the City, Mr. Seelig was with Oneida County working as a medical accounting supervisor and finance administrative officer.
- **Dennis Gillen, Planning Assistant**: Mr. Gillen has been with the City of Rome for 8 years, and is responsible for working with the Real Property Committee which oversees real estate transactions for city-owned property. He also provides oversight for properties that are derelict and cannot be rehabilitated.
- **Frank Tallarino, Commissioner of Public Works**: Mr. Tallarino has been the Commission of Public Works for the City of Rome for 12 years. Mr. Tallarino will allocate resources - trucks, site work, and demolition services for the project.

V.B.5.b Audit Findings

The City of Rome has not had any adverse audit findings.

V.B.5.c Past Performance and Accomplishments

V.B.5.c.i Currently or Has Ever Received an EPA Brownfields Grant

The City of Rome has received an EPA brownfields grant for the following property:

1. 1333 E. Dominick Street: The City received a $200,000 EPA Brownfield Cleanup grant in 2011 that will expire in 2016. The purpose of the grant was to continue cleanup efforts after PCB contamination was located in the concrete flooring of both buildings which requires demolition. The City revised the work plan from restoring to demolishing the buildings. The site was a former gas station and manufacturing facility. There is community-wide interest in developing a mixed-use, commercial space or grocery store. The City is working with the EPA to revise the budget to allow the City's Department of Public Works to complete the asbestos and demolition.

V.B.5.c.ii Has Not Received an EPA Brownfields Grant but has Received Other Federal or Non-Federal Assistance Agreements

The City has received an EPA grant as referenced in Section V.B.5.c.i, and has also received the following grants from the New York State Department of Environmental Conservation (DEC).

1. 501 W. Liberty Street: The City received $205,513 from the DEC Environmental Restoration Program (ERP) in 2006 to clean the property for a future mixed-use development. The property was previously a textile mill, machine shop and automobile service shop. The City has recorded the easement and survey, and is currently waiting on the Certificate of Compliance from the DEC. Once received, this will allow the City to sell the property and put it back on the tax roll. The contract expires at the end of 2015, and the DEC is looking into extending the ERP program.

2. 1333 E. Dominick Street: The City received $200,000 in funding from the DEC to participate in the ERP. The purpose of cleaning the property was to develop it as a mixed-use commercial space. The community has expressed interest in commercial uses, including a grocery store. The former uses of the site include a gasoline station and manufacturing facility. The contract was awarded in 2006 and is set to expire at the end of 2015. Demolition is scheduled to occur at the beginning of 2016 for both the 1- and 2-story building. An Alternative Analysis has been submitted to the DEC and the City is awaiting approval to move towards a record of decision. This site was also the recipient of an EPA grant.

3. 1201 E. Dominick Street: In 2006, the City received $232,417 in funding from the DEC ERP to clean up contamination associated with a former gas station and auto repair shop. The contract expires at the end of 2015, with the possibility of an extension. The City has met their targeted goals of cleaning up the site, and has complied with submitting all status reports as required by the DEC. The City is completing the final paperwork and reimbursements. The site is currently vacant with a plan for a future mixed-use development.

4. 701 Lawrence Street: In 2006, the City received $571,520 through the DEC, ERP to clean the site that was formerly a major oil storage facility that housed storage tanks. An oil spill occurred on the property on October 2, 1989 (spill reference #8906561), and cleanup efforts are directly related to this incident. The site is currently vacant and is being prepared for mixed-use, waterfront development. The City has submitted an Alternative Analysis to the DEC that is awaiting approval. There are two sites associated with this property. The DEC is currently looking into splitting the site into two operable units and move forward with a record of decision. Both sites are at different stages of cleanup. One site is close to receiving a record of decision while the other requires further environmental investigation. The contract will expire in 2015.

V.B.5.c.iii Has Never Received Any Type of Federal or Non-Federal Assistance Agreements

Not applicable. The City of Rome has received Federal assistance through an Environmental Protection Agency (EPA) Cleanup Grant for 1333 Dominick Street, Rome, NY.

Attachment A

Threshold Criteria Documentation

III.C Threshold Criteria for Cleanup Grants

III.C.1 Applicant Eligibility

III.C.1.a Eligible Entity

The City of Rome is an eligible entity. It is a unit of local government as defined under 40 CFR Part 31.

III.C.1.b Site Ownership

The City of Rome is the sole owner of the property. The site was acquired on July 16, 2014 via a tax foreclosure. Rollerad Corporation was the immediate previous owner.

III.C.2 Letter from the State or Tribal Environmental Authority

The letter from the New York State Department of Environmental Conservation can be found in Attachment B.

III.C.3 Site Eligibility and Property Ownership Eligibility

Site Eligibility

III.C.3.a Basic Site Information

(a)The site is known as the Former Rome-Turney Radiator Company Site.

(b)The site address is 109 Canal Street, Rome, NY, 13440. The tax ID is 242.066-0001-001.

(c) The City of Rome is the current owner.

(d) Not applicable.

III.C.3.b Status and History of Contamination at the Site

(a) This site is contaminated by petroleum. (b) The site was the location of the Rome-Turney Radiator Company that manufactured radiators from 1905 until the mid-1990s, when the company went out of business. From 1992 through 1995, the property was operated by Lynch Realty, The Music Factory (an internet search indicated that this was an asphalt company), the Rome-Turney Radiator Co., and Serway Brothers Inc.-Plastic Laminating Division (an internet search indicated that this was a cabinet making company). From 1999 through 2003, the property was operated by The Music Factory and the Rome-Turney Radiator Co. In 2008, the property was operated by Elegrace Casket Inc. (an internet search indicated that this was a casket making company), Rofin LLC (an internet search indicated that this was a global supplier of industrial

coolers who purchased all of the assets of the Rome-Turney Radiator Co.), and the Rome-Turney Radiator Company. In 2013, the property was operated by The Music Factory. Currently, the site is not being actively used. (c) Soils and ground water have been contaminated by petroleum. (d) The site was given a NYSDEC Spill No.(8802056) in June 1988 when a release of petroleum from fuel storage tanks was discovered and reported to NYSDEC. Site investigation, which includes a Phase I Environmental Site Assessment (dated August 24,2015) and a draft Site Investigation Report (Phase II) (dated December 11, 2015), indicates that petroleum has impacted the soils and ground water at levels that exceed the New York State standards. The source of this petroleum contamination is from former on-site bulk storage and leaking underground storage tanks.

III.C.3.c Sites Ineligible for Funding

(a) The site is not listed, nor is it proposed for listing on the National Priorities List. (b) The site is subject to Federal unilateral administrative orders, court orders, administrative orders on consent, or judicial consent decrees issued to or entered into by parties under CERCLA. (c) The site is not subject to the jurisdiction, custody, or control of the U.S. government.

III.C.3.d Sites Requiring a Property-Specific Determination

This site does not require a property-specific determination.

III.C.3.e Environmental Assessment Required for Cleanup Proposals

The site is within a designated NYS Brownfield Opportunity Area. The Nomination Study was prepared in conjunction with the City by Bergmann Associates and is dated September, 2012. A Phase I Environmental Site Assessment was prepared for the property by Bergmann Associates and was completed on August 24, 2015. A draft Site Investigation Report, which conforms to the ASTM Phase II Environmental Site Assessment standards, was prepared by Bergmann Associates and was issued on December 11, 2015. This Site Investigation was the result of the Work Plan that was prepared by Bergmann Associates in a document dated September 22, 2015 and was given approval by the New York State Department of Conservation (DEC) in an email dated October 6, 2015. A draft Remedial Action Plan was prepared by Bergmann Associates and was issued December 15, 2015.

Property Ownership Eligibility - Hazardous Substance Sites

III.C.3.f CERCLA §107 Liability

Does not apply since this is a petroleum site.

III.C.3.g Enforcement or Other Actions

Does not apply since this is a petroleum site.

III.C.3.h Information on Liability and Defenses/Protections

III.C.3.h.i Information on the Property Acquisition

Does not apply since this is a petroleum site.

III.C.3.h.ii Timing and/or Contribution Toward Hazardous Substances Disposal

Does not apply since this is a petroleum site.

III.C.3.h.iii Pre-Purchase Inquiry

Does not apply since this is a petroleum site.

III.C.3.h.iv Post-Acquisition Uses

Does not apply since this is a petroleum site.

III.C.3.h.v Continuing Obligations

Does not apply since this is a petroleum site.

III.C.3.i Property Ownership Eligibility - Petroleum Sites

III.C.3.i.i Current and Immediate Past Owners

The current owner is the City of Rome. The immediate past owner is Rollerad Corporation.

III.C.3.i.ii Acquisition of Site

The City of Rome purchased the site on July 16, 2014. It was via a tax foreclosure.

III.C.3.i.iii No Responsible Party for the Site

The current owner did not dispense or dispose of petroleum or petroleum product, or exacerbate the existing petroleum contamination at the site. Additionally, the immediate past owner did not dispense or dispose of petroleum or exacerbate the existing petroleum contamination at the site. (2) Neither the current nor immediate past owner owned the site when any dispensing or disposal of petroleum (by others) took place. (3) The City of Rome, as the current owner, has taken reasonable steps with regard to the contamination at the site, including securing the site and performing extensive investigative studies.

For EPA Region 2, Petroleum Determination is made by the EPA. Please find attached (Attachment K) the request to the Brownfields Section of the USEPA Region 2, which includes the "Brownfield Property Approval-Petroleum Contamination" Form and the Eligibility Determination Response Letter (email) from the EPA.

III.C.3.i.iv Cleaned Up by a Person Not Potentially Liable

The on-site petroleum spill can be dated to June 1988. The City of Rome did not purchase the site until July, 2014. The applicant, the City of Rome, did not dispense or dispose of petroleum or petroleum product or exacerbate the existing petroleum contamination at the site. The applicant has taken reasonable steps with regards to the contamination at the site by securing the site, having it remain unused to limit exposure to the public, and performing extensive environmental investigations.

III.C.3.i.v Relatively Low Risk

As is shown on the "Brownfield Property Approval-Petroleum Determination" Form (Attachment K), the site is identified as "relatively low risk". The site is not receiving or using Leaking Underground Storage Tank (LUST) trust fund monies. Attachment K also includes the Petroleum Eligibility Determination letter (email) from the EPA.

III.C.3.i.vi Judgments, Orders, or Third Party Suits

No responsible party has been identified for the site through, either:

1. A judgement rendered in a court of law or an administrative order that would require any person to assess, investigate, or clean up the site: or

2. An enforcement action by federal or state authorities against any party that would require any person to assess, investigate, or clean up the site; or

3. A citizen suit, contribution action, or other third-party claim brought against the current or immediate past owner, that would, if successful, require the assessment, investigation or cleanup of the site.

III.C.3.i.vii Subject to RCRA

The site is not subject to any order under section 9003(h) of the Solid Waste Disposal Act of the Resources Conservation and recovery Act (RCRA). See Attachment K for the Petroleum Eligibility Determination letter (email) from the EPA.

III.C.3.i.viii Financial Viability of Responsible Parties

The petroleum spill can be dated back to June 1988 (Spill No. 8802056), and the current owner, the City of Rome, purchased the property in July, 2014 via tax foreclosure. The immediate past owner purchased the property in August, 2010. Since the spill predates both purchases, neither the current nor the immediate past owner is responsible for the contamination of the site. Refer to Attachment K for the Petroleum Eligibility Determination letter (email) from the EPA.

III.C.4 Cleanup Authority and Oversight Structure

III.C.4.a Cleanup Oversight

The site is enrolled in the New York State (NYS) Department of Conservation (DEC) Petroleum Spill Program. The regulatory oversight will remain the responsibility of the Spills program. The City of Rome, with Bergmann Associates as their representative, will address the source of the petroleum impact with the goal of achieving "pre-spill conditions". The City will be required to achieve, to the extent feasible, the CP-51 SCOs for petroleum related contaminants. CP-51 is the NYSDEC policy for guidance on petroleum fuel oil and gasoline contaminated properties and SCO is the Soil Cleanup Objectives or standards that apply to these situations.

Bergmann Associates, acting as the City's representative, prepared the BOA Step 2Nomination Study (the site falls within the BOA boundaries), the Phase I Environmental Site Assessment and the Site Investigation Report (Phase II) and is therefore knowledgeable and fully qualified to act as the representative.

Bergmann Associates also prepared a scope of work for a Planning Feasibility Study (Work Plan) under the Petroleum Spill Program for the investigation on this site and presented this to the NYSDEC, which approved the plan on October 6, 2015. The results obtained from the investigation outlined in this Work Plan are reflected in the Site Investigation Report issued December 11, 2015. In addition, a draft Remedial Action Plan was prepared by Bergmann Associates and was issued on December 15, 2015.

III.C.4.b Access to Adjacent Properties

The site is 1.4 acres and is irregularly shaped. It is bound on one long side by Erie Boulevard and on two shorter sides by Canal Street and a railroad right-of-way. There is adequate roadway access to the site. However, if additional access is needed, it is bound on one other short side by a vacant lot owned by the immediate past owner, Rollerad. The City of Rome does not anticipate any issue with access.

III.C.5 Statutory Cost Share (See also IV.E on Leveraging)

III.C.5.i Meet Required Cost Share

The City of Rome will provide the 20% cost share in the form of services for cleanup activities, including the transporting of contaminated soils from the site. Funds from the ongoing Step 3 BOA Implementation Strategy process will be used to fund portions of these activities.

III.C.5.ii Hardship Waiver

A hardship waiver for the cost share is not being requested.

III.C.6 Community Notification

A notice of a public meeting was advertised on December 3, 2015. The ad also directed the public to the city website to review the draft application and draft ABCA. The required public meeting was held as advertised on December 11, 2015 at 12:00 noon in the Council Chambers at Rome City Hall. The draft application and draft ABCA were available for review at that time and the public was given the opportunity for comment. No members of the public attended this meeting.

Please find in Attachment E a copy of the public notice and meeting notes from the public meeting. No one from the public attended the public meeting and therefore there were no comments to report from that meeting. Additionally, there were no public comments received from the posting on the city website. Therefore, there are no public comments to report or to respond to.

Please find in Attachment F the draft ABCA.

Attachment B

Letter from the State

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Bureau of Program Management
625 Broadway, 12th Floor, Albany, NY 12233-7012
P: (518) 402-9764 I F: (518) 402-9722
www.dec.ny.gov

DEC -7 2015

Mr. Jake DiBari, Director
Community and Economic Development
City of Rome
198 N. Washington Street
Rome, NY 13440

Dear Mr. DiBari:

This is to acknowledge that the New York State Department of Environmental Conservation (Department) received your request dated December 2, 2015, for a state acknowledgement letter for a United States Environmental Protection Agency (USEPA) brownfield grant application.

I understand that the City plans to submit an application in the amount of $200,000 for a brownfields cleanup grant. Funding would be used to perform activities at the 109 Canal Street site, Spill No. 8802056.

The Department encourages initiatives to redevelop brownfields with the goal of mitigating any environmental and health impacts that they might pose.

Sincerely,

Laura Zeppetelli
Director
Bureau of Program Management

ec: T. Wesley, USEPA Region 2, wesley.terry@epa.gov
S. DeMeo, Bergmann, P.C., sdemeo@BERGMANNPC.com
P. Taylor, NYSDEC, Region 6
G. Heitzman, NYSDEC, Albany

Attachment C

Letters of Support from all Community-Based Organizations

United States Department of the Interior

National Park Service
Fort Stanwix National Monument
112 East Park Street
Rome, New York 13440

December 14, 2015

Ms. Lya Theodoratos
EPA Region 2
290 Broadway
18th Floor
New York, NY 10007

Re: City of Rome USEPA Brownfields Cleanup Grant Application
Former Rome-Turney Radiator Company Site
109 Canal Street, Rome, NY 13440

Dear Ms. Theodoratos,

On behalf of Fort Stanwix National Monument, it is my pleasure to support the City of Rome's application for a USEPA Brownfields Cleanup Grant. Fort Stanwix National Monument is an archeological site and battlefield that includes remnants of the original Fort Stanwix (briefly named Fort Schuyler). The site is significant for the strategic roles the fort played during the French and Indian War, the American Revolution and for the various treaties negotiated within its walls. The fort brings in between 50,000 – 100,000 visitors annually. In 2014, over 60,000 visitors to Fort Stanwix spent 3,206,000 in Rome and the surrounding communities.

The City of Rome, as part of the New York State Brownfield Opportunity Area Program, is preparing a redevelopment strategy for the Erie Boulevard Gateway corridor, of which Fort Stanwix is a part. This gateway serves as a principal entry welcoming residents and visitors from the south. The corridor provides services and employment opportunities within a safe and walkable community and connects the waterfront to the downtown.

The former Rome-Turney Radiator site, located at 109 Canal Street, is near Fort Stanwix and the geographic area contributes to the history of the fort. Given its prominent location at the intersection of Black River Boulevards, this site has been identified as a catalyst for the revitalization for the BOA study area. The redevelopment of this property has been hindered by a petroleum spill from a fuel tank that was discovered in 1988. The cleanup of the property would greatly benefit the health and welfare of the local community and would help to spearhead economic development initiatives in this area, potentially creating new jobs and housing opportunities.

We believe that this remediation will be the beginning of a positive economic movement in this area. As part of our support, we look forward to continued involvement as a stakeholder in the City's plans for reuse and revitalization of this area.

Thank you for your time and consideration of this grant application.

Sincerely,

Frank Barrows
Superintendent

Anthony J. Picente Jr.
County Executive

Shawna M. Papale
Secretary/
Executive Director

Jennifer Waters
Assistant Secretary

ONEIDA COUNTY INDUSTRIAL
DEVELOPMENT AGENCY
OCIDA

584 Phoenix Drive
Rome, New York 13441-4105
(315) 338-0393, fax (315) 338-5694

David C. Grow
Chairman

Natalie Brown
Vice Chairman

Ferris Betrus Jr.
Michael Fitzgerald
Mary Faith Messenger
Eugene Quadraro
Stephen Zogby

December 8, 2015

Ms. Lya Theodoratos
EPA Region 2
290 Broadway - 18th Floor
New York, NY 10007

Re: City of Rome USEPA Brownfields Cleanup Grant Application
Former Rome-Turney Radiator Company Site
109 Canal Street, Rome, NY 13440

Dear Ms. Theodoratos,

The Oneida County Industrial Development Authority is a county-wide economic development entity. It helps with site and project development.

The City of Rome, as part of the New York State Brownfield Opportunity Area Program, is preparing a redevelopment strategy for the Erie Boulevard Gateway corridor. This gateway serves as a principal entry welcoming residents and visitors from the south. The corridor provides services and employment opportunities within a safe and walkable community and connects the waterfront to the downtown.

The former Rome-Turney Radiator site, located at 109 Canal Street, is near the Fort Stanwix National Monument and itself is an important historical site being that it played an integral part in the manufacturing history of Rome. Given its prominent location at the intersection of Black River Boulevard and Erie Boulevard, this site has been identified as a catalyst for the revitalization for the BOA study area. The cleanup of the property would greatly benefit the health and welfare of the local community and would help to spearhead economic development initiatives in this area, potentially creating new jobs and housing opportunities.

We are pleased to hear that the City of Rome is making application for a Brownfield Cleanup Grant and are writing in support of this application. We believe that this remediation will be the beginning of a positive economic movement in this area.

As part of our support, we look forward to continued involvement as a stakeholder in the City's plans for reuse and revitalization of this area.

Thank you for your time and consideration of this grant application.

Sincerely,

Shawna Papale
Executive Director

ONEIDA COUNTY SOIL AND WATER CONSERVATION DISTRICT
121 SECOND STREET, ROOM E
ORISKANY, NY 13424
PHONE: (315) 736-3334
FAX: (315) 736-3335

December 16, 2015

Ms. Lya Theodoratos
EPA Region 2
290 Broadway
18th Floor
New York, NY 10007

Dear Ms. Theodoratos:

The Oneida County SWCD wishes to express support for the proposed City of Rome USEPA Brownfields Cleanup Grant Application located at the Former Rome-Turney Radiator Company Site on 109 Canal Street, Rome, NY 13440.

Sincerely,

Kevin L. Lewis,
OCSWCD Executive Director

ONEIDA COUNTY HEALTH DEPARTMENT

Adirondack Bank Building, 5th Floor, 185 Genesee St., Utica, NY 13501

ANTHONY J. PICENTE, JR.
ONEIDA COUNTY EXECUTIVE

PHYLLIS D. ELLIS, BSN, MS, F.A.C.H.E
DIRECTOR OF HEALTH

ADMINISTRATION

Phone: (315) 798-6400 Fax: (315) 266-6138 Email: publichealth@ocgov.net

December 15, 2015

Ms. Lya Theodoratos
EPA Region 2
290 Broadway
18th Floor
New York, NY 10007

Re: City of Rome USEPA Brownfields Cleanup Grant Application
Former Rome-Turney Radiator Company Site
109 Canal Street, Rome, NY 13440

Dear Ms. Theodoratos,

The City of Rome, as part of the New York State Brownfield Opportunity Area Program, is preparing a redevelopment strategy for the Erie Boulevard Gateway corridor. This gateway serves as a principal entry welcoming residents and visitors from the south. The corridor provides services and employment opportunities within a safe and walkable community and connects the waterfront to the downtown.

The former Rome-Turney Radiator site, located at 109 Canal Street, is near the Fort Stanwix National Monument and itself is an important historical site in that it played an integral part in the manufacturing history of Rome. Given its prominent location at the intersection of Black River and Erie Boulevards, this site has been identified as a catalyst for the revitalization of this portion of the Rome downtown area. The redevelopment of this property has been hindered by a petroleum spill from a fuel tank that was discovered in 1988. The City of Rome is working with NYSDEC and has completed an investigation of the spill. The cleanup of the property would greatly benefit the health and welfare of the local community and would help to spearhead economic development initiatives in this area, potentially creating new jobs and housing opportunities.

We are pleased to hear that the City of Rome is making application for a Brownfield Cleanup Grant and are writing in support of this application. We believe that this remediation will be the beginning of a positive economic movement in this area. As part of our support, we look forward to continued involvement as a stakeholder in the City's plans for reuse and revitalization of this area.

Thank you for your time and consideration of this grant application.

Sincerely,

Phyllis D. Ellis, RN, BSN, MS
Director of Health

Rome Community Brownfield Restoration Corporation
584 Phoenix Drive
Rome, New York 13441-4105

December 7, 2015

Ms. Lya Theodoratos
EPA Region 2
290 Broadway
18th Floor
New York, NY 10007

Re: City of Rome USEPA Brownfields Cleanup Grant Application
Former Rome-Turney Radiator Company Site
109 Canal Street, Rome, NY 13440

Ms. Theodoratos:

The Rome Community Brownfield Restoration Corporation is an economic development agency focused on remediating and revitalizing brownfield sites in the City of Rome, with particular attention to the former Rome Cable site. Over the past four years, Rome's Brownfield Opportunity Area (BOA) has served as the blueprint for downtown development - facilitating new construction, job opportunities, and millions of dollars in new investment and will hopefully serve as a model for other municipalities in our region as they pursue long term revitalization strategies.

The City of Rome, as part of its BOA program, is developing a redevelopment strategy for the Erie Boulevard corridor. In keeping with that strategy, they are making an application to your agency for a Brownfields Cleanup Grant, in order to remediate environmental impacts associated with petroleum contamination for the above referenced site.

Given its location near the intersection of Black River Boulevard and Erie Boulevard, this site could be a catalyst for the revitalization of the Erie Boulevard corridor. Remediation of known contaminants would greatly benefit the health and welfare of the local community.

As such, please accept this letter of support on behalf of the Rome Community Brownfield Restoration Corporation.

Sincerely,

Frederick J. Arcuri
Authorized Representative

ROME
AREA CHAMBER
OF COMMERCE

Our Business is Helping Your Business

139 W. Dominick Street ~ Rome, New York 13440
Ph (315) 337-1700 ~ Fax (315) 337-1715
www.RomeChamber.com ~ info@RomeChamber.com

December 15, 2015

Ms. Lya Theodoratos
EPA Region 2
290 Broadway
18th Floor
New York, NY 10007

Re: City of Rome USEPA Brownfields Cleanup Grant Application
Former Rome-Turney Radiator Company Site
109 Canal Street, Rome, NY 13440

Dear Ms. Theodoratos:

The Rome Area Chamber of Commerce supports the City of Rome's redevelopment strategy for the Erie Boulevard corridor and requests approval of the application to the USEPA for a Brownfields Cleanup Grant for the purpose of remediating environmental impacts associated with petroleum contamination at that site.

Rome's redevelopment efforts and careful planning processes toward revitalization are deliberate and sharply focused. Moreover, all efforts are aimed toward achieving significant business growth and neighborhood pride. The Erie Boulevard corridor site is near the intersection where Route 46 North/South changes to East/West, where Black River Boulevard meets Erie Boulevard, which is adjacent to the 15-acre Fort Stanwix National Monument in the heart of downtown Rome. In 2016, major celebrations will be taking place at the Fort to commemorate the 100th anniversary of the National Park Service and the 40th anniversary of the reconstruction of the Fort, which played a pivotal role in our country's history during the American Revolution.

Rome itself was home to Griffiss Air Force Base for 50 years until it was realigned in 1993 as a result of the Base Realignment and Closure Commission. For the past 20+ years, Rome has been aggressively working to re-build the population, which dropped from 50,000 to 32,000 as a result of the downsizing of Griffiss.

The cleanup of the former Rome-Turney Radiator Company property would surely enhance the marketability and potential for this highly-traveled portion of Rome. Nearby are two hotels and several restaurants and shopping areas, yet redevelopment of this brownfield site could rightly serve as a catalyst for needed economic growth.

Thank you for your consideration of this request to support and approve Rome's application.

Respectfully,

William K. Guglielmo
President

Rome Historical Society

200 Church Street
Rome, NY 13440
Phone: 315-336-5870 | Fax: 315-336-5912
info@romehistoricalsociety.org
www.romehistoricalsociety.org

President
Matthew R. Fidler
Vice President
Michael Kohli
Secretary
Lori Frieden
Treasurer
Fredrick Normand
Trustees
Phil Alerding
Jackie Colangelo
Michael Colangelo, Sr.
Michael Grogan
Peter Leonard
John Mazzaferro
David Rapke
Charles Sprock

Executive Director
Arthur L. Simmons III

December 15th, 2015

Ms. Lya Theodoratos
EPA Region 2
290 Broadway 18th Floor
New York , N.Y. 10007

By resolution of Rome Historical Society Board of Trustee's we support the City of Rome, New York and its application to the United States Environmental Protection Agency to remediate known petroleum contaminated soil at the former Rome Turney Radiator Site located at 109 Canal Street. The two known areas identified for remediation are located along what is considered the main entrance to the site and in the Northeast section of the same open air lot.

Clean up of the former Rome Turney Radiator site would greatly benefit our community in various ways. First and foremost its proximity to many residential homes should make clean up a public health priority. In addition its location is adjacent to the intersection of Erie and Black River Blvds, Downtown, South James Street, and Rome's Historic district including Fort Stanwix National monument all of which would benefit from this remediation.

Rome Historical Society sincerely hopes that this is the beginning of what could be a bright future for this Historic Structure.

Regards,

Arthur L. Simmons III
Executive Director

Attachment D

Documentation of Leveraged Funds for the Project

STATE OF NEW YORK
DEPARTMENT OF STATE
ONE COMMERCE PLAZA
99 WASHINGTON AVENUE
ALBANY, NY 12231-0001

ANDREW M. CUOMO
GOVERNOR

CESAR A. PERALES
ACTING SECRETARY OF STATE

May 18, 2011

Honorable James F. Brown
Mayor
City of Rome
198 N. Washington St.
Rome, NY 13440

Subject: ***Brownfield Opportunity Areas (BOA) Program Grant Award***

Dear Mayor Brown:

On behalf of Governor Andrew M. Cuomo, I am pleased to inform you that your BOA Program application for Downtown Rome - Step 3 in the amount of $500,400 has been approved.

David MacLeod from the Department of State will be contacting you shortly to schedule an appointment to discuss the contract work plan, consultant procurement, public participation and reimbursement. For your convenience, guidance for commencing projects can be found at: www.nycommunities-waterfronts.com/GrantOpportunities/BrownfieldOpportunityAreas.aspx

The Department of State is pleased to be able to provide technical and financial assistance under this program to support community driven revitalization and implementation strategies that establish the foundation for sound investments for improving neighborhoods so they become economically and environmentally sustainable. We look forward to working with you on this important endeavor.

Sincerely,

Cesar A. Perales

Cesar A. Perales

c: David MacLeod

Attachment E

Documentation of Community Notification and Meeting Minutes

State of New York
County of Oneida } **ss:**

I, Jessica Butera,
being sworn, says she is, and during the time hereinafter mentioned, was Legal Advertising Representative of the DAILY SENTINEL, a newspaper printed and published in the County of Oneida, aforesaid; and that the annexed printed Notice was inserted and published in said Newspaper once/ commencing

on the 3rd day of December, 20 15

to wit: December 3rd

December 3rd, 20 15

Jessica Butera

Sworn to before me this 16th day of December, 20 15

Notary Public

CHRIS H. SIRIANO
Notary Public, State of New York
No. 01SI6196843
Qualified in Oneida County
My Commission Expires Nov. 17, 2016

LEGAL NOTICE

Notice is hereby given that the City of Rome is planning to apply for a United States Environmental Protection Agency (USEPA) Brownfield Cleanup Grant on or before December 18, 2015 for the Former Rome-Turney Radiator Company site, which is located at 109 Canal Street, Rome, NY. The draft application, including an Analysis of Brownfield Cleanup Alternatives (ABCA) will be available for review and comment at a public meeting on:

December 11, 2015 at 12:00 PM in the Common Council Chambers, 2nd Floor at
Rome City Hall
198 N Washington Street
Rome, NY 13440

The draft application and ABCA will also be available for review and comment at City Hall or on the city's website: http://romenewyork.com/.

The public may send written comments to Matthew Andrews to the above address or via email to: mandrews@romecitygov.com until December 17, 2015.

12/3—1ti

United States Environmental Protection Agency
Brownfield Cleanup Grant
Public Hearing Minutes
December 11, 2015
12:00 - 1:00 p.m.
Rome City Hall

Former Rome-Turney Radiator Company site
109 Canal Street, Rome, NY 13440

Meeting commenced at 12:00 p.m.

Members of the City staff and consultant team were available for questions and comments. There were no comments from the public.

Meeting adjourned at 1:00 p.m.

Meeting minutes recorded by Jane Nicholson-Dourdas, AICP, Bergmann Associates

Attachment F

Draft Analysis of Brownfields Cleanup Alternatives (ABCA)

CITY OF ROME
DRAFT ANALYSIS OF BROWNFIELD CLEANUP ALTERNATIVES
FORMER ROME-TURNEY RADIATOR COMPANY SITE

NYSDEC SPILL No. 8802056
109 Canal Street
City of Rome, New York

December 7, 2015

Matthew J. Andrews, Senior Planner
City of Rome
198 N. Washington Street
315-339-7628 office
315-838-1167 fax
mandrews@romecitygov.com

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1.0 INTRODUCTION

Bergmann Associates (Bergmann) has prepared this Draft Analysis of Brownfield Cleanup Alternatives on behalf of the City of Rome that evaluates 3 proven remedial technologies that consider site characteristics, surrounding environment, land-use restrictions, potential future uses, and cleanup goals. The final ABCA will be signed by an authorized representative of the grant recipient and the ABCA must include:

- Information about the site and contamination issues (e.g., exposure pathways, identification of contaminant sources, etc.), cleanup standards, applicable laws, alternatives considered, and the proposed cleanup;
- Effectiveness, implementability, and the cost of the proposed cleanup;
- Evaluate the resilience of the remedial options in light of reasonably foreseeable changing climate conditions (e.g., sea level rise, increased frequency and intensity of flooding and/or extreme weather events, etc.);
- An analysis of reasonable alternatives including no action. For cleanup of brownfield petroleum-only sites, an analysis of cleanup alternatives must include considering a range of proven cleanup methods including identification of contaminant sources, exposure pathways, and an evaluation of corrective measures. The cleanup method chosen must be based on this analysis; and
- The alternatives may consider the degree to which they reduce greenhouse gas discharges, reduce energy use or employ alternative energy sources, reduce volume of wastewater generated/disposed, reduce volume of materials taken to landfills, and recycle and re-use materials generated during the cleanup process to the maximum extent practicable.

1.2 REPORT AND PLAN ORGANIZATION

This document is organized as follows:

Section 1.0	ABCA report introduction;
Section 2.0	Site background information and a description of areas of concern (AOCs);
Section 3.0	Discussion of the contaminants in the Site soil and groundwater along with potential exposure routes and migration pathways;
Section 4.0	Presents the identification and development of potential remedial alternatives;
Section 5.0	Presents a detailed analysis of the alternatives;
Section 6.0	Presents the selected alternative and recommendations;

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2.0 SITE BACKGROUND AND SETTING

Targeted Community Description

The City of Rome has been known historically as the industrial and manufacturing center of Oneida County. Its history is defined by geographic features, including the Mohawk River, the Erie Canal and its location in the "center" of New York State. Known as the "Copper City", Rome was home to numerous metal industries such as Revere Copper, Rome Cable and General Cable. From 1950-1995, Rome was the home of Griffiss Air Force Base which closed in 1995 causing Rome and the region to suffer notable economic and demographic declines.

Rome is participating in the Brownfield Opportunity Area Program(BOA), which is funded, administered and overseen by the New York State Department of State(DOS) and the Department of Environmental Conservation(DEC). Rome's first BOA is the Downtown Rome BOA, which is a 513 acre site that includes a mixture of residential, industrial, commercial and retail land uses. This BOA has been divided into nine subareas to assist with the completion of the inventory and analysis and to ensure that recommendations address neighborhood-specific issues and opportunities.

The target of this application is the Former Rome-Turney Radiator Company. This site is identified in the Nomination Study, prepared under Step 2 of the BOA Program, and dated September 2012, as one of two strategic site within the Erie Boulevard Gateway Subarea. This area serves as the primary gateway from the south across the Erie Canal. This underdeveloped corridor is a prime area for business development, green infrastructure improvements, streetscape enhancements as well as traffic calming measures to create a positive first impression of the city.

Description of Brownfields

The Downtown Rome Brownfield Opportunity Area (BOA) is composed of 513 acres and has 92 brownfield sites. The Erie Boulevard Gateway Subarea, one of 9 within the BOA, is 31.9 acres and of the 86 parcels that comprise it, 32 are brownfields. Given the statistics, many of these are one acre or less and are within close proximity of one another.

The target site is one of two sites within this subarea identified in the Nomination Study under the NYS BOA Program as a strategic site. Because this site has a highly visible location near the intersection of Black River Boulevard and Erie Boulevard, it is a catalyst site that could ultimately play a role in the revitalization of the Downtown Rome Brownfield Opportunity Area. The site is currently vacant and includes several structures. It was owned and operated by the Rome-Turney Radiator Company from 1905 until the mid-1990s as a manufacturing plant for radiators. In June 1988, it was given a petroleum Spill No.(8802056) when a release of petroleum from fuel storage tanks was discovered and reported to the New York State Department of Environmental Conservation. Subsequently, it has been used for light manufacturing and storage by several different companies. Because of past use and known petroleum contamination, reuse of this site in its current condition is limited and is a real detriment to the revitalization of the area.

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2.2 SITE HISTORY

Basic Site Information

The Site is known as the Former Rome-Turney Radiator Company Site. The site address is 109 Canal Street, Rome, NY, 13440. The tax ID is 242.066-0001-001. The City of Rome is the current owner.

Status and History of Contamination at the Site

This Site is contaminated by petroleum chemical compounds and metals. The Site was the location of the Rome-Turney Radiator Company that manufactured radiators from 1905 until the early 1990s, when the company went out of business. From 1992 through 1995, the property was operated by Lynch Realty, The Music Factory (an internet search indicated that this was an asphalt company), the Rome-Turney Radiator Co., and Serway Brothers Inc.-Plastic Laminating Division (an internet search indicated that this was a cabinet making company). From 1999 through 2003, the property was operated by The Music Factory and the Rome-Turney Radiator Co. In 2008, the property was operated by Elegrace Casket Inc. (an internet search indicated that this was a casket making company), Rofin LLC (an internet search indicated that this was a global supplier of industrial coolers who purchased all of the assets of the Rome-Turney Radiator Co.), and the Rome-Turney Radiator Company. In 2013, the property was operated by The Music Factory. The Site is currently vacant and not actively used. Soils and ground water have been contaminated by petroleum. The Site was given a NYSDEC Spill No.(8802056) in June 1988 when a release of petroleum from #2 fuel oil storage tanks was discovered based on failure of tank tightness tests and reported to NYSDEC. Site investigations indicate that petroleum has impacted the soils at levels that exceed NYSDEC CP-51 Soil cleanup objectives (SCOs) and groundwater standards. The source of this petroleum contamination is from former on-site bulk storage and leaking underground storage tanks.

2.3 PREVIOUS ENVIRONMENTAL SITE INVESTIGATIONS

Subsurface Investigation Report – May 1996

NYSDEC issued spill no. 8802056 after tank tightness tests failed for two 5,000 gallon #2 fuel oil underground storage tanks. Rome-Turney Radiator Co. retained Theal Environmental Services Inc. (Theal), to perform a Subsurface Investigation. The results of this investigation revealed floating petroleum #2 fuel oil in monitoring wells located in the UST area with impacted soil / groundwater. Gasoline chemical compounds were also detected in the subsurface during the investigation. Documentation for this investigation is presented in the Subsurface Investigation Report for Rome-Turney Radiator Co. NYSDEC spill No. 8802056 prepared by Theal, May 1996.

Phase I Environmental Site Assessment – August 2015

Bergmann prepared a Phase I Environmental Site Assessment (ESA) report, dated August 24, 2015, for the Site on behalf of the City of Rome. The purpose of the Phase I ESA report is to document the investigative activities conducted to identify Recognized Environmental Conditions (RECs) at the subject property identified as the Former Rome-Turney Radiator Company, 109

Canal Street in the City of Rome, Oneida County, New York 13440 (the subject property). This Phase I ESA was conducted as part of an evaluation for the sale of the building at the subject property. The general location of the subject property is shown in Figure 1. The Phase I ESA was conducted in accordance with ASTM Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E-1527-13, published November 2013, and was conducted in accordance with the U.S. Environmental Protection Agency (EPA) All Appropriate Inquiry (AAI). The primary objective of this Phase I ESA is to identify and document RECs at the subject property, in accordance with the ASTM standard. The Phase I ESA recommended subsurface investigations at REC locations that included the petroleum spill area.

Investigation Scope of Work – September 2015

Bergmann prepare the scope of work in a letter to NYSDEC dated September 22, 2015. The scope of work (work plan) provided detail for subsurface investigation at suspected petroleum sources at the former #2 fuel oil USTs locations and other RECs. This proposed scope of work included:

- Geophysical Survey;
- Test Pit Explorations;
- Soil Borings & Groundwater Monitoring Wells; and
- Laboratory test methods for soil / groundwater samples.

The scope of work was reviewed and approved by NYSDEC prior to implementation of the Site Investigation by Bergmann.

Draft Site Investigation Report – December 2015

Bergmann's Site Investigation (SI) focused on confirming the existing condition of the subsurface a petroleum impacted soils near former USTs locations in the spill area and at other suspected REC locations based on historical information, the results of the geophysical survey (EM-61 survey) and 8 test pit explorations initially completed to assist with locating 8 soil borings completed as monitoring wells within the Site for an further evaluation of soil and groundwater quality, see Figure 2- Soil Borings and Monitoring Well Location Plan. The soil borings/monitoring wells were also installed at locations that are up-gradient and down-gradient to regional groundwater flow. Our scope of work was discussed with the NYSDEC spill manager and approved prior to performing the SI. Bergmann performed the SI during October through December 2015, in accordance with the scope of work. Soil and groundwater is impacted with levels of petroleum chemical compounds that exceed NYSDEC CP-51 SCOs and require remediation, see Figure 3 – SVOC Soil Contaminant Distribution – Test Pits and Figure 4 – SVOC Soil Contaminant Distribution – Soil Boring. The SI project is documented in the Draft Site Investigation Report, December 2015.

The conclusions and recommendations in the Draft Site Investigation Report were based on the field observations, field soil screen measurements, and laboratory analytical results for Site soil

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and groundwater samples. The conclusions are based on Bergmann's opinions with respect to the Site environmental data obtained, conditions observed during the project work as noted below:

Conclusions

The suspected sources of petroleum impacted soils are former underground storage tanks #2 fuel oil tanks and suspected gasoline UST that released petroleum products to the subsurface on Site. Two petroleum source areas have been identified as Areas of Concern (AOC). Petroleum AOC #1 is a suspected gasoline UST area located in the vicinity of SB-1/MW-1 and TP-6. Petroleum AOC #2 is the former #2 fuel oil USTs area near TP-1, TP-2, and SB-5/MW-5.

The suspected sources of petroleum impacted groundwater is the former underground fuel oil storage tanks (AOC#2) that released to the subsurface and suspected former bulk storage of petroleum products in USTs on Site (AOC#1).

The source of Metals is likely from the use of these metals on the Site. Background concentrations of metals should be evaluated to confirm the elevated detections. Monitoring wells should be resampled due to very turbid samples that were analyzed during the site Investigation. Background concentrations of metals should also be evaluated to confirm the elevated detections.

R*ecommendations*

Remediation of petroleum impacted soil and groundwater associated with the release of petroleum from the underground storage tanks is required. Other investigations may be required to address other impacts to the sub-surface. All future investigation and remediation work should be coordinated with NYSDEC.

Bergmann also recommends another groundwater sampling event to continue to evaluate groundwater levels.

Planning for petroleum source are soil and groundwater remediation by evaluating remedial alternatives in an Analysis of Brownfield Cleanup Alternatives (ABCA) report for selection of a proven remedial alternative that can be implemented to meet the remedial objectives and is protective of human health and the environment.

Preparation of a Remedial Action Work Plan (RAWP) that details the proposed soil and groundwater remediation to clean up the source areas of the petroleum spill on Site.

2.4 RECOGNIZED ENVIRONMENTAL CONDITIONS AND AREAS OF CONCERN

Based on a review of the Site history and previous environmental investigations, 2 areas of concern (2- AOCs) were identified on-site include:

- Suspected gasoline USTs (AOC #1 – gasoline chemical compounds),
- Former underground fuel oil tanks (AOC # 2 - #2 fuel oil chemical compounds),

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3.0 SITE INVESTIGATION SUMMARY

The former Rome-Turney Site located at 109 Canal Street was issued a NYSDEC Spill No. 8802056 in June 1988 when a release of petroleum from fuel store tanks was discovered and reported to NYSDEC. The Site Investigation completed during October and November 2015 by Bergmann Associates was based on the recommendations in the Phase I Environmental Site Assessment Report (Bergmann, August 24, 2015). The Phase I Environmental Site Assessment Report recommended a Site Investigation to evaluate the known petroleum contamination associated with leaking underground storage fuel oil tanks and other recognized environmental conditions.

The Site Investigation has revealed petroleum impacted soil at levels that exceed NYSDEC CP-51 Soil Cleanup Objectives (SCOs) and NYSDEC 6 NYCRR Part 375-6.6 Soil cleanup objectives. These petroleum impacted soils require remediation under the supervision of NYSDEC. The source of the petroleum contamination is from former on-site bulk petroleum storage and leaking underground storage tanks. The EPA Brownfield Cleanup Grant will be used to clean up the petroleum impacted soils to meet NYSDEC SCOs and remove remaining underground storage tanks.

The Site Investigation included:

- A Geophysical Survey EM-61 that located metallic anomalies
- Excavation of 8 test Pits at suspected USTs locations and metallic anomalies
- Installation of 8 soil borings competed as groundwater monitoring wells
- Field Soil screening for total VOC vapor with Photoionization detector ranged from non-detect to 730 ppm
- Floating petroleum product was not observed – Stained soils and petroleum odors were noted from test pit soils and soils encountered in soil borings.
- Laboratory soil and groundwater analysis of 101 samples for: VOCs, SVOCs, Metals, Pesticides, and PCBs
- Coordination with NYSDEC

Soil Sample Summary

- PCBs are not a chemical of concern (COC) - Non-detection for PCBs

- Pesticides are not a COC - Non-detection of Pesticides

- VOCs low levels of Gasoline Chemical Compounds do not appear to be COC and were detected in the following ranges: Naphthalene in the 0.445 to 5 ppm range, 1,2,4-Trimethylbenzene 0.0895 ppm (TP-5), 1,3,5 –Trimethylbenzene 0.0322 ppm, n-Butylbenzene 0.0327, n-Propylbenzene 0.035 ppm, sec-Butylbenzene 0.0247, Methylcyclohexane 0.0474 ppm to 1.3 ppm, m,p, Xylenes 0.0228 ppm and other low level gasoline VOCs.

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- Low levels of Acetone detected (0.0509 ppm to 0.115 ppm range)

- Chlorinated VOCs non-detection are not a COC.

- SVOCs are a COC with petroleum chemical compounds that exceed NYSDEC CP-51 SCO for fuel oil / diesel compounds. See Summary Tables and Figures that present the SVOCs that exceed standards.

- Limited SVOC – PAH compounds detected that exceed NYSDEC CP-51 SCOs. See Summary Tables and Figures that present the distribution of SVOCs that exceed standards.

- Metals are a COC with several metals that exceed Part 375 SCOs. See Summary Tables and Figures that present the distribution of metals that exceed standards.

The suspected sources of petroleum COCs is the former underground storage tanks that released to the subsurface and former bulk storage of petroleum products on Site. The source of Metals COC is likely from the use of these metals on the Site. Although Background concentrations of metals should be evaluated to confirm the elevated detections.

Groundwater Sample Summary

- PCBs are not a chemical of concern (COC) - Non-detection for PCBs

- Pesticides are not a COC - Non-detection of Pesticides

- VOCs low levels of Gasoline Chemical Compounds do not appear to be COC and were detected in the following ranges less than 5 ppb:
  1,2,4- Trimethylbenzene, 1,3,5 –Trimethylbenzene, n-Butylbenzene, n-Propylbenzene, sec-Butylbenzene, Methylcyclohexane, m,p, Xylenes and other low level gasoline VOCs.
- Low levels of Acetone detected (38.4 ppb to 0.115 ppm range)

- 2-Butanone 5.5 ppb, Chloroform 4.8 ppb

- Chlorinated VOCs non-detection are not a COC

- SVOCs low ppb levels but higher levels when TICs added into values and maybe a COC

- Metals are a COC, See Summary Tables and Figures that present the distribution of metals that exceed standards.

The suspected sources of petroleum VOCs, SVOCs and COCs in groundwater is the former underground storage tanks which released, to the subsurface, petroleum products. The source of Metals COC is likely form the use of these metals on the Site. Monitoring wells should be

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resampled due to very turbid samples that were analyzed during the site Investigation. Background concentrations of metals should also be evaluated to confirm the elevated detections.

Remediation of petroleum impacted soil and groundwater associated with the release of petroleum from the underground storage tanks is required. Other investigations maybe required to address other impacts to the sub-surface.

3.3 POTENTIALLY EXPOSED POPULATIONS AND EXPOSURE ROUTES

Potential human receptors under current conditions are limited to occasional persons that may trespass on the vacant field area of the Site. During construction and remediation activities, receptors will include construction and remediation workers, and workers on adjoining properties. Under the planned future land use, the selected remedial alternative will prevent human exposure to Site contaminants.

Exposure Pathways — On-Site *Current Conditions*

Site contains petroleum VOC and SVOCs and metals in surface and subsurface soil.

Human exposure to impacted groundwater at the Site by ingestion is not an exposure pathway. Since, the Site is supplied by the City of Rome Bureau of Water.

Overburden groundwater beneath the Site contains low levels petroleum chemical compounds, elevated metals, and low level SVOCs, above applicable NYSDEC Class GA 703.5 groundwater standards. Overburden groundwater is supplies to the Site and surrounding vicinity by municipal water supply.

Construction/Remediation Activities

Remediation activities and future earthwork construction at the Site may result in potential exposures to Site contaminants by remediation contractors and future contractors. An excavation work plan will be required in areas of residual contamination as part of a site management plan to prevent this exposure pathway in the future. The proposed activities include excavation and removal of the most impacted soil and limited groundwater removal during the active soil removal. Therefore, the potential exists for exposure of petroleum soil contaminants of concern (COCs) to construction workers via dermal absorption, ingestion, and inhalation. A Community Air Monitoring Plan (CAMP) will be implemented and actions will be taken to provide a measure of protection for the surrounding community from potential airborne contaminant releases as a direct result of remedial work activities.

Proposed Future Condition

The Site is targeted for future re-development that is restricted to residential or commercial use. While complete details regarding the proposed development have not yet been generated. Following completion of the selected remediation activities and site re-development, the groundwater will be sampled to evaluate potential effects from remediation and soil excavation.

Summary

Depending on the remedial alterative implemented, complete on-site exposure pathways may exist between the petroleum impacted soil and groundwater with human receptors during future Site use, future remediation and construction activities. Potential pathways include direct contact (dermal absorption), ingestion, and inhalation of soil and groundwater contaminants. Complete off-site exposure pathways are not thought to exist between the Site media and human receptors during current conditions and after future Site remediation and construction is complete. During future remediation activities and earthwork construction precautions will be required to protect remediation/construction workers and the general public on adjoining properties.

4.0 IDENTIFICATION AND DEVELOPMENT OF ALTERNATIVES

4.1 INTRODUCTION

The purpose of identifying remedial alternatives for the Site is to identify and evaluate the most appropriate remedial action for a contaminated AOC or specific media at the Site. The goal of all remedial alternatives evaluated is to eliminate or mitigate significant threats to public health and the environment presented by the contaminants identified at the Site through proper application of scientific and proven engineering principles.

Remedial action objectives (RAOs) form the basis for identifying remedial technologies and developing remedial alternatives. This section identifies RAOs for surface soils, subsurface soil and groundwater. General response actions (GRAs) are provided to address the RAOs and the extent of soil and groundwater contamination requiring remedial action. Site-specific RAOs were developed with consideration for the contaminant concentrations, chemical and toxicological properties of the COCs, existing or potential exposure pathways, and anticipated future land use.

4.2 LOCAL LAND USE FACTORS

The current and possible future land uses of the Site are critical to the development of current and future human exposure scenarios. Exposure evaluations such as type of exposure, exposure frequency, and exposure duration were determined based upon current land use, current zoning and planning, local populations, and future land use plans.

The Site is located in an area of mixed residential/commercial/industrial. The Site has a history of commercial/industrial manufacturing activity and is currently vacant. The City of Rome is working to cleanup this Site for future re-development that would be restricted to residential or commercial use.

4.3 IDENTIFICATION OF REMEDIAL ACTION OBJECTIVES

The RAOs for the Site are medium-specific or AOC-specific objectives, which are established for the protection of human health and the environment. Based on the results of the Draft Site Investigation, and the current and potential future use of the Site and surrounding areas, the following general RAOs were developed to reduce, to the extent feasible:

- Potential ingestion, dermal contact, inhalation, and direct contact exposures of persons or workers at or around the Site to Petroleum VOCs, SVOCs and metals in soil or groundwater; and,
- Potential ingestion and inhalation exposures of persons or workers at or around the Site to Petroleum VOCs, SVOCs and metals in dust (soil dust) that may migrate off-site by wind.

These RAOs will be accomplished by the implementation of a Petroleum spill cleanup for restricted residential or commercial use protective of public health and the environment through:

- Removal, to the extent practicable, or in-situ treatment of the two AOC petroleum soil source areas;
- Removal of petroleum impacted groundwater from source area excavations
- Use of confirmatory soil and groundwater samples to demonstrate the effectiveness of the cleanup.

The screening and evaluation of remedial action technologies and alternatives will focus on the ability to achieve these general RAOs.

4.4 DEVELOPMENT OF REMEDIAL ACTION OBJECTIVES (RAOs)

4.4.1 On-site Soil

As discussed in the Site Investigation report, select VOCS and SVOCs and metals exceed the SCOs in surface soils, subsurface soils and groundwater at the Site. The extent of contamination at the Site appears to be due, primarily to the release of Petroleum from tanks.

Identified potential exposure pathways for on-site soil include ingestion, inhalation of contaminated dust, and dermal contact. Under current conditions, there is the potential for exposure to the contaminants contained within the Site surface soils by trespassers and Site workers through dermal contact, ingestion, and/or inhalation.

Due to the intended future restricted residential or commercial use of the Site, the amount of petroleum impacted soil and groundwater which will be removed from the Site and residual volatile contaminants in the Site soil/groundwater that may remain after removal is completed, remedial actions are warranted to eliminate the potential for direct human exposure for the anticipated future Site development.

Therefore, further exposure of the contamination to potential environmental and human receptors will be reduced.

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4.4.2 On-site Groundwater

Overburden groundwater is impacted with concentrations of low levels of petroleum chemical compounds, metals and SVOCs that marginally exceeded the NYSDEC 703.5 Class GA groundwater standards. Groundwater is not used or planned to be used at the Site or in the vicinity of the Site for drinking water purposes. Site vicinity is serviced by municipal water supply. Therefore, exposure routes for ingestion or adsorption from groundwater is considered to be an incomplete exposure pathway after development and its future use will be restricted through an institutional control use restriction, which shall run with the land. As a result, remedial objectives to reduce potential human and environmental exposure associated with the impacted groundwater will include engineering and institutional controls. The remedial objective for groundwater at the Site will be to reduce contact and eliminate any use of groundwater. The overall RAO for the groundwater media is protection of human health and the environment.

4.5 GENERAL RESPONSE ACTIONS (GRAs)

After establishing the RAOs for the Site, several general response actions (GRAs) were evaluated based upon the ability of the response to address the remedial RAOs. These actions are intended to mitigate potential exposure to Site COCs, control the migration of the COCs on the Site, and/or remediate the COCs to the extent practicable. The purpose of establishing GRAs is to begin to evaluate basic methods of protecting human health and the environment, such as removal, treatment, and/or containment of the Site contaminants. The GRAs may then be combined to form alternatives, such as treating contaminated media (if necessary) and providing barriers, containment, or post- treatment monitoring of residual contaminants.

The following list summarizes the GRAs that were considered for remediation of the contamination that is present at the Site:

- No Further Action - Institutional and Administrative Controls
- Removal with Off-site Disposal
- In-Situ Treatment

Each of the GRAs will be analyzed for each remedial alternative in Section 5.0 below.

5.0 EVALUATION OF REMEDIAL ALTERNATIVES

A number of alternatives were evaluated and screened based on the RAOs, cost, implementability, and effectiveness. The screening determined application of a single remedial technology will not be considered sufficient as the sole remedial option based on the physical Site setting and the nature and extent of contamination. As a result, remedial alternatives were combined to provide an effective, implementable, and cost-effective approach to remediating the Site.

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The following five remedial alternatives for the Site have been evaluated utilizing the general response actions retained from the initial screening:

Alternative 1: No Action with Institutional and Engineering Controls

- No Remedial Action
- Natural Attenuation and 30 Year Groundwater Monitoring Plan
- Institutional Control to prevent groundwater use
- Engineering Control to control physical access to the site to prevent direct human contact with the historic fill

Alternative 2: Removal Petroleum Impacted soils in source area with limited groundwater removal and Backfill with Restoration of Ground Surface.

- Achievement of petroleum source area cleanup to address the current NYSDEC petroleum spill through implementation of a source area soil removal excavation with limited groundwater removal and long term Engineering and Institutional Controls required pursuant to an SMP and EE.

- Collection and analysis of confirmatory end-point samples in the petroleum source soil removal areas to determine the performance of the remedy with respect to attainment of applicable levels of remediation.

- Import of materials to be used for excavation backfill in compliance with remediation requirements. Potential re-use of Site soils as backfill and re-cycled crushed concrete.

- Excavation and removal of petroleum impacted soils with disposal at permitted facilities sampling and analysis of excavated media as required by disposal facilities and NYSDEC. Appropriate segregation of excavated soils and materials on-Site.

Alternative 3: Soil Vapor Extraction System for In Situ Treatment of Petroleum Soils Source Area

- Soil vapor extraction system for in-situ remediation of petroleum impacted soils source area
- Compliance Ground Water Monitoring (quarterly to annual monitoring for a minimum period of 5 years)
- Engineering and Institutional controls

A detailed analysis of these three remedial alternatives for remediation and management for the contaminants in the impacted environmental media present at the Site is provided in the following section.

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5.2 ANALYSIS OF ALTERNATIVES

The purpose of the following sections is to provide a detailed analysis of several remedial alternatives for managing the contaminants present at the Site. Section 5.3 provides a detailed analysis of each alternative, while Section 5.4 is used to compare the alternatives to each other.

After the description of each alternative in Section 5.3, an assessment of the alternative is made, evaluating the alternative relative to the following criteria:

- Overall Protection of Human Health and the Environment
- Compliance with SCGs
- Long-term Effectiveness & Permanence
- Reduction of Toxicity, Mobility, or Volume
- Short-term Effectiveness
- Implementability
- Cost
- Land Use
- Green Sustainable Remediation

A summary of each alternative is summarized in Section 5.3.1 through 5.3.5. Cost estimates for each alternative are summarized in Table 1 – Estimated Total Present Worth.

5.3 INDIVIDUAL ANALYSIS OF ALTERNATIVES

5.3.1 Alternative 1 - No Action with Engineering and Institutional Controls

Description of Alternative

The No Action Alternative is evaluated as a procedural requirement and as a basis for comparison. It allows the Site to remain in an un-remediated state but would be secured with a physical barrier to limit access, such as a fence. This alternative would leave the site in its present condition and would provide minimal protection to human health or the environment.

The No Action Alternative was retained as a basis for comparison of other remedial alternatives. Natural processes, including degradation, dispersion, dilution, adsorption, volatilization, etc., would provide the only source of contaminant removal. As a result, there would be no active reduction in toxicity, mobility, or volume of the contaminants. The cost estimate associated with this alternative includes institutional and engineering control costs. Site engineering controls would include site access restrictions through fencing and signage. The institutional controls would include a groundwater use restriction. The capital cost to implement the no action alternative will be $40,000.

Assessment of Alternative 1

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An analysis of the feasibility of the No Action Alternative relative to the Site is summarized in the following table:

Evaluation of Alternative 1

Criterion	Discussion
Protection of Human Health & the Environment	*Advantages:* • No Action - Natural attenuation will continue to slowly decrease the concentration of the organic contaminants in soils and groundwater. *Disadvantages:* • Natural attenuation will not decrease or mitigate impact from the concentration of the inorganic (metals) contaminants in soils. • May take decades for Site contaminants to attenuate. • Remedial objectives not met. Unacceptable exposure levels to workers and community would remain for planned redevelopment only protected by institutional controls and engineering controls.
Compliance with SCGs	Does not meet SCGs and will not likely meet them for several years (potentially in excess of 30 years).
Long-Term Effectiveness & Permanence	*Advantages:* • No significant advantages other than saving of remedial costs and limiting Site access. *Disadvantages* • Not effective in meeting SCGs within a reasonable length of time. • Not effective in reducing future exposure levels to human health and the environment. • There is no long-term protection from contaminants and redevelopment of Site for public access would not be feasible. Vacant land use and no green remediation.
Reduction in Toxicity, Mobility, & Volume	*Advantages:* • Eventually, residual organic contamination may reach SCGs. *Disadvantages:* • All contaminated media remains on Site. • Reduction in toxicity, mobility, or volume of organic contaminants through natural attenuation is very slow (probably over 30 years). • There would be no reduction of inorganic (metals) contaminants through natural attenuation.
Short-Term Effectiveness	*Advantages:* • Site activity is limited to erection of the fence to prevent access to the Site. There is minimal to no increased risk to workers other than during fence construction, and no risk to the community or the environment, which would need to be managed during the implementation of fence erection as compared to the other remedial alternatives. (i.e. fugitive dust emissions, storm water management, open trench hazards, and hauling of contaminated soils through residential communities). *Disadvantages:* • Offers no increased protection to human health or the environment.
Implementability	*Advantages* • Easily implemented. *Disadvantages:* • Offers no increased protection to human health or the environment.
Costs	• Capital costs - $40,000 • Annual costs (groundwater monitoring and repairs to fence)- $1,500 • Present worth - $40,000

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5.3.2 Alternative 2 - Removal of Petroleum Impacted soils in source area with limited groundwater removal and Backfill Restoration to Ground Surface.

Description of Alternative
Alternative 2 summary of proposed remedial action will consist of:

- Implementation of a Citizen Participation Plan.
- Performance of a Community Air Monitoring Program for particulates and volatile organic carbon compounds / odors.
- Achievement of petroleum source area cleanup to address the current NYSDEC petroleum spill through implementation of a source area soil removal excavation with limited groundwater removal and long term Engineering and Institutional Controls required pursuant to an SMP and EE.
- Collection and analysis of confirmatory end-point samples in the petroleum source soil removal areas to determine the performance of the remedy with respect to attainment of applicable levels of remediation.
- Import of materials to be used for excavation backfill in compliance with remediation requirements and in accordance with NYSDEC DER-10 guidance. Potential re-use of Site soils as backfill and recycled crushed concrete in accordance with NYSDEC DER-10 and DER-34 guidance.
- Excavation and removal of petroleum impacted soils with disposal at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal. Sampling and analysis of excavated media as required by disposal facilities and NYSDEC. Appropriate segregation of excavated soils and materials on-Site.
- Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID.
- Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.
- Submission of an approved Site Management Plan (SMP) for long-term management of residual contamination, including plans for operation, maintenance, monitoring, sampling, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency.
- Recording of an Environmental Easement (EE) that includes a listing of Engineering Controls and a requirement that management of these controls must be in compliance with an approved SMP; and Institutional Controls including prohibition of the following: (1) use of groundwater without treatment rendering it safe for the intended use; (2)

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disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (3) higher level of land usage without EPA, NYSDEC and NYSDOH approval.

Assessment of Alternative 2

The following table provides a summary of the detailed assessment for the **Removal of Petroleum Impacted soils in source area with limited groundwater removal and Backfill Restoration to Ground Surface.**

Evaluation of Alternative 2

Criterion	Discussion
Protection of Human Health & the Environment	*Advantages:* • Removal of all Site source area petroleum soils to levels that would prevent any future potential exposure risks to human health and the environment after remediation is complete. • Achievement of cleanup goals that will provide the highest protection of human health and the environment. *Disadvantages:* • Natural attenuation will not decrease the concentration of petroleum contaminants in soils and groundwater at the source areas after the remediation is completed. • Residual levels anticipate to remain in the soil and groundwater will be substantially reduced. However, not at levels were natural attenuation would further reduce to NYSDEC standards.
Compliance with SCGs	Remedial objectives and compliance with SCGs would be met following remediation because all contaminated media will be removed and replaced with clean soil.
Long-Term Effectiveness & Permanence	*Advantages:* • Effective. Threats posed by Site contaminants removed from Site. • Remedy is permanent because soils are disposed off-site and replaced with clean soils. • Land can be redeveloped. *Disadvantages:* • Contaminated soils relocated rather than treated. Higher energy cost. • Lengthy dust exposure risk during long term excavation activities.
Reduction in Toxicity, Mobility, & Volume	*Advantages:* • Toxicity, mobility, and volume of contaminants at the Site are reduced in a relatively short-time frame. *Disadvantages:* • Increased potential for contaminant mobility from dust and vapors during excavation would need to be managed. • The overall volume and toxicity of the contaminants is reduced on-site but not from existence since they are transferred to a disposal facility.
Short-Term Effectiveness	*Advantages:* • Highest degree of protection of human health and the environment, since contaminated soils would be eliminated at the Site. *Disadvantages:* • Has potential to generate significant fugitive dust emissions and some limited volatile emissions to air for a lengthy period of time.

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Criterion	Discussion
Short-Term Effectiveness (cont'd)	*Disadvantages:* • Large volume approximately 2,000 tons of excavated soil would result in increased truck traffic.
Implementability	*Advantages* • No long-term maintenance, easement or utilities required. *Disadvantages:* • Implementing a large scale excavation operation of this magnitude would be similar to an open mining operation. A large scale dewatering system would need to be implemented to allow for excavation to depths below the groundwater table and would result in very large amounts of water that would need to be managed by storage, treatment, and/or proper discharge. Removal of contaminated media below 15 feet would be difficult. • Significant engineering controls required during excavation to reduce exposure to humans and the environment from fugitive dust, deep excavation hazards, storm water runoff control, etc. • Removing large quantities of soil off-site and importing clean fill would result in significantly increased truck traffic through local communities. • The cost to perform this type of remedial alternative is prohibitive.
Costs	• Capital costs - $240,000 • Annual cost - $0.00 • Present worth - $240,000

5.3.4 Alternative 3- Soil Vapor Extraction System for *In Situ* Treatment of Petroleum Impacted Soil Source Areas

Description of Alternative 3

Alternative 3 a soil vapor extraction system will be implemented for In Situ (in-place) on-site treatment instead of physical soil removal for off-site disposal of the petroleum soils source areas.

Alternative 3 includes a soil vapor extraction (SVE) system for the removal of petroleum volatile organic compounds and petroleum SVOCs from the 2 identified petroleum impacted soil source areas. A network of 9 wells located at AOC#1 Area (excavation A area) and 9 wells located at AOC #2 (excavation B area). The total number of wells in the network would be 18, the wells would act as soil vapor extraction wells would be installed in the petroleum impacted soil source areas and connected to a vacuum blower motor to provide the design vacuum required to remove the petroleum contaminants over time. The extraction wells are installed to the design depth that is determined based on the depth of the groundwater table and the vertical extent of impacts. Each extraction well is located in the impacted area based on the spacing required from determination of the effective extraction well radius of influence. The size of the petroleum impacted source area at AOC #1 is approximately 45 ft. X 25 ft. X 15 ft. and size of AOC#2 is approximately 45 ft. X 25 ft. X 15 ft., see Figure 2. The petroleum impacted soils have elevated organic vapors, which were detected during the Site Investigation. A Site Management Plan,

which will include ICs and ECs, and an environmental easement will also be prepared and recorded, to be implemented by current and future owners, developers, contractors and Site operators for management of potential exposures to human health and the environmental receptors. Existing building and future building will not be built in the vicinity of the petroleum soil areas to reduce the potential for future vapor intrusion issues. This remedy may create a lower short-term carbon footprint impact than Alternative 3. However, there is a long-term carbon footprint impact; since electricity is required to operate the SVE system.

Assessment of Alternative 3

The following table provides a summary of the detailed assessment for a **Soil Vapor Extraction System for *In Situ* Treatment of Petroleum Soils Source Area.**

Evaluation of Alternative 3

Criterion	*Discussion*
Protection of Human Health & the Environment	*Advantages:* • The Site contaminants will be remediated in-place, preventing direct human direct contact and off-site migration of soils by erosion and windblown soil particles. • The Excavation Work Plan contained in the future Site Management Plan will provide guidance for contactors and developers for proper management of future exposed contaminated soils during excavations that potential exposure to human health and the environmental receptors are minimized and protected. • The petroleum impacted source areas will be treated In Situ and concentrations of petroleum VOCs and SVOC will be reduced at a rate quicker than natural attenuation, thus decreasing the time to achieve protection of human health and environmental receptors. • Long-term protection from petroleum COCs and future redevelopment of the Site for public access would be feasible. • Potential worker exposures during the implantation of this alternative are less than alternatives 2. Since, this alternative is implemented without an excavation for soil removal where exposure risks to impacted soils during excavation are higher when compared to installation of a soil vapor extraction system (in-situ) that are lower for workers. *Disadvantages:* • Residual petroleum contamination is more likely with this alternative.
Compliance with SCGs	*Advantages:* • Is protective of human health and the environment and is a proved EPA cleanup method. *Disadvantages:* • May require extended time to complete the cleanup. • Some petroleum COCs will remain in groundwater.
Long-Term Effectiveness & Permanence	*Advantages:* • Petroleum source areas soils would be remediated for VOCs and the majority of SVOCs with the *In Situ* soil vapor treatment system. • Remedy is permanent in area of *In Situ* treatment system because majority of contaminants are *destro*yed rather than transferred to a disposal facility. • Reduces the amount of organic vapors contaminants that could potentially migrate off-site or cause potential vapor intrusion issues in the existing and future Site buildings. • Land can be redeveloped.

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Criterion	*Discussion*
Long-Term Effectiveness & Permanence (cont'd)	*Disadvantages:* • Some residual petroleum COCs would remain in the soil and groundwater below the Site. • Some petroleum COCs would remain in the groundwater. • Soil Vapor Extraction system equipment for *In Situ* treatment would require long term operation and maintenance (O&M) and significant electric power use. High electric energy cost. • ECs and ICs would be necessary to ensure long-term protection of human health and the environment.
Reduction in Toxicity, Mobility, & Volume	*Advantages:* • Eventually, COCs in groundwater would stabilize and should not increase in concentration. • The petroleum soil source area would be treated, reducing the volume of and concentration of contaminants at the Site. • The potential vapor intrusion issues for the existing and or future Site buildings would be low risk. Less risk of potential off-site migration of COCS as fewer petroleum COCs would remain. *Disadvantages:* • Reduction in toxicity, mobility, or volume of VOC and SVOC petroleum contaminants in remaining soils through natural attenuation is very slow and may take decades. • Pockets of petroleum impacted soils may remain.
Short-Term Effectiveness	*Advantages:* • Development for public access and Site reuse would be possible without significant Site disruption or exposure to adjoining properties from dust. *Disadvantages:* • ECs and ICs would need to be implemented to reduce potential human health and environmental exposures but less short term impacts. Since, there will be extraction wells drilled in place of an open excavation for the remediation of the petroleum source area soils. Monthly and annual O&M required for the soil vapor extraction system.
Implementability	*Advantages:* • Readily implemented. • Large excavations are not required, no soil to be transported off-site, dewatering system not required. *Disadvantages:* • ECs and ICs required during and after physical remediation are competed. • Energy consumption will be high due electric power required to operate the Soil vapor extraction system for several years. • Constructions of surface structures are required to house soil vapor extraction equipment that may impact future redevelopment of the Site. • Long-term routine operation and maintenance (O&M) would be required for the soil vapor extraction system. • Active remediation (soil vapor extraction) would be on-going during the future construction for redevelopment. • Long-term groundwater monitoring program would be required.
Cost	• Capital costs – $400,000 • Annual costs - $18,335 • Present worth - $400,000

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The following assumptions have been made regarding Alternative 3:

- It is assumed that the SVE system will operate for 10 years and can be purchased for costs described in Table 1.
- At this time, plans for redevelopment are not known.

5.4 COMPARATIVE ANALYSIS

The following subsections provide a brief comparison of the alternatives relative to the same 9 criteria used to evaluate the alternatives individually. As previously identified in this AAR, the alternatives have been compared based upon the following 9 criteria:

1. Overall protection of human health and the environment
2. Compliance with Standards, Criteria, and Guidance (SCGs)
3. Long-term effectiveness and permanence
4. Reduction in toxicity, mobility, and volume
5. Short-term effectiveness
6. Implementability
7. Cost estimate
8. Land Use
9. Green Sustainable Remediation Principles

5.4.1 Protection of Human Health & the Environment

Alternative 1 Comparisons - Protection of Human Health & the Environment

As previously discussed, Alternative 1 - No Action, combined with an Institutional Control (groundwater use prohibition) and engineering controls (Site fencing), was maintained for a baseline comparison of the alternatives. However, is not considered sufficiently protective of human health and environment. Therefore, Alternative 1 will not be selected as the preferred alternative for managing the contamination at the Site.

Alternative 2 Comparisons - Protection of Human Health & the Environment

Soil and groundwater removal with off-site disposal of petroleum impacted source areas described in Alternative 2 would provide the greatest overall protection for potential human health and environmental receptors.

Alternative 3 Comparisons - Protection of Human Health & the Environment

Alternative 3 includes a soil vapor extraction system for *In Situ* treatment of petroleum source areas.

This alternative includes a vapor extraction system to use as an in-situ remediation technology to remove the petroleum contaminants that include: elevated organic vapors, VOCs, SVOCs,

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and petroleum odors from the two petroleum source areas at a rate faster than natural attenuation. This In-situ treatment technology will take longer to achieve results which have the potential to be less protective of human health and the environment than Alternative 2, and over a much longer period of time.

5.4.2 Compliance with SCGs

Alternative 1 Comparison - Compliance with SCGs

Alternative 1 does not meet the requirements to remediate a petroleum spill and SCGs since source removal of the soil and groundwater from the areas of contamination at the Site is not addressed. Human exposure can result from surface soils and impacted groundwater that would not be addressed. Therefore, implementation of Alternative 1 would not reduce the contamination and would not result in compliance to respond to a petroleum spill and would not meet all SCGs. This alternative would be completed with the lowest level of compliance for SCGs when compared to Alternatives 2 and 3.

Alternative 2 Comparisons - Compliance with SCGs

Alternative 2 would achieve petroleum spill remediation requirements and remedial goals, which is the highest level of remediation. Since, essentially all of the petroleum contaminants in soils above standards would be removed from the Site down to a depth of approximately 12 to 15 feet in some locations during the active remediation phase. Alternative 2 would result in a permanent reduction of petroleum contaminants of concern. Therefore, after completion of the remediation tasks described for this Alternative the SCGs would be achieved. Implementation of Alternative 2 would achieve the highest level of compliance with SCGs when compared to Alternatives 1, and 3.

Alternative 3 Comparisons - Compliance with SCGs

Alternative 3 would use a combination of a In Situ soil vapor extraction to actively remediate the petroleum soils source areas, which would result in reduced concentrations of organic vapors, gasoline and diesel organic compounds and other petroleum contaminants in the Site soils. Although this remedial alternative would be intended to result in compliance with SCGs the anticipated reduction would be less certain when compared to Alternatives 2 and in greater compliance compared to Alternative 1.

5.4.3 Long-Term Effectiveness and Permanence

Alternative 1 Comparisons- Long-Term Effectiveness and Permanence

Alternative 1 provides no active remedy for the petroleum contaminants at the Site, and therefore, provides no long-term effectiveness in reducing exposure of the Site contaminants to human health and the environment, other than limiting access to the Site with fencing and a locked gate. Alternative 1 provides the lowest level of long-term effectiveness and permanence when compared to alternatives 2 and 3.

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Alternative 2 Comparisons- Long-Term Effectiveness and Permanence

Alternative 2 provides the most long-term effective and permanent remedy for the Site contamination because essentially all contaminated soil from the sources areas is disposed of off-site reducing potential exposure to humans and the environment after the remediation is complete. By removing the sources of petroleum impacted soil and backfilling the excavations with clean imported soils, the impacts to groundwater quality would be significantly reduced, which would ultimately reduce the potential exposure to humans through contact with groundwater. This alternative also includes a limited removal of petroleum impacted groundwater from the soil removal excavations. Therefore, this alternative provides the greatest level of long-term effectiveness and permanence when compared to Alternatives 1and 3.

Alternative 3 Comparisons- Long-Term Effectiveness and Permanence

The long-term effectiveness and permanence for Alternative 3 is less certain when compared to Alternatives 2. Since, residual concentrations of contaminants may permanently remain in the petroleum source areas after the remediation is complete for Alternative 3 and are removed for off-Site disposal in Alternatives 2. Anticipated residual concentrations of petroleum left on Site would be higher for Alternative 2 due to inherent pockets of soils between the vapor extraction wells that may not be remediated by the vacuum of these wells at fixed locations in the source soils being remediated. Long-term effectiveness and permanence of Alternative 3 would be higher when compared to Alternative 1.

5.4.4 Reduction in Toxicity, Mobility, and Volume

Alternative 1 Comparisons- <u>Reduction in Toxicity, Mobility, and Volume</u>

Alternative 1 provides no reduction in toxicity, mobility or volume of petroleum contaminants at the Site. The alternative would only include EC and IC that include fencing and a locking gate. There is no action for physical remediation for this alternative.

Alternative 2 Comparisons- <u>Reduction in Toxicity, Mobility, and Volume</u>

Alternative 2 provides the greatest reduction in the toxicity, mobility, and volume of contaminants by removing petroleum contaminants from the source areas at the Site followed by limited groundwater removal and backfilling with imported clean soils. Therefore, alternative 2 provides the highest level for this comparison when compared to each of the other alternatives.

Alternative 3 Comparisons- <u>Reduction in Toxicity, Mobility, and Volume</u>

Alternative 3 would reduce the toxicity and mobility of petroleum contaminants (petroleum COCs – VOCs and SVOCs) at the source area. The reduction of toxicity of impacted soil would result from the removal of volatile organic compounds and limited SVOCs from the petroleum source areas that is the area of greatest contamination for organic vapors, VOCs and SVOCs. The overall volume of impacted soils would generally not be reduced since these soils would be remediated in place by the in situ vapor extraction system in contrast to physical soil removal of

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containments in Alternative 2. Cleanup of the petroleum soil source areas would be less than Alternative 2 due to residual petroleum concentrations and isolated pockets of soil that may not be remediated by this soil vapor extraction system.
Cleanup of the petroleum soil source areas would be greater than Alternative 1.
Therefore, Alternative 3 would provide a greater degree of reduction in toxicity and mobility, and volume of petroleum COCs when compared to Alternative 1 and less certainty regarding the reduction of these elements when compared to Alternatives 2.

5.4.5 Short-Term Effectiveness

Alternative 1 Comparisons- Short-Term Effectiveness

Alternative 1 provides no active remedy for the petroleum contaminants at the Site, and therefore, provides no short-term effectiveness in reducing exposure of the Site contaminants to human Health and the environment, other than limiting access to the Site with fencing and a locked gate. Alternative 1 provides the lowest level of short-term effectiveness when compared to Alternatives 2 and 3.

Alternative 2 Comparisons- Short-Term Effectiveness

The timeframe required to complete this alternative to achieve petroleum source area soil removal and the SCGs would require approximately 1.5 to 2 years and is relatively a short period of time when compare to Alternative 3 that would require approximately 10 years to complete the remediation. Therefore, during a relatively short period of time the highest level of cleanup would be reached. The high level of short-term effectiveness would be realized at the end of the source area soil removal (active remediation). Since, essentially all of the petroleum containments above standards would be removed from the soil source areas and replaced with clean backfilled soils imported to the Site. Short-term effectiveness of Alternative 2 is considered high when compared to Alternatives 1 and 3. Alternative 2 would result in the short term effectiveness in terms of protection of human health (worker exposure) and the environment. In addition to worker safety around excavations, this task has the potential to generate the greatest amount of fugitive dust emissions and would cause the greatest increase in the amount of short term (three weeks) truck traffic within local area of the City of Rome during active remediation. Alternative 2 is considered to pose the greatest potential safety threat to workers during the active remediation due to the excavation areas and large excavation equipment associated with Alternative 2, and the hazards of working with this equipment.

Alternative 3 Comparisons- Short-Term Effectiveness

The timeframe required to complete this alternative and to achieve remediation of the petroleum source areas and SCGs would require approximately 10 years to complete active remediation and approximately 5 years to demonstrate that the SCGs have reached. Therefore, several years will be required to complete the remediation and demonstrate the short-term effectiveness when compared to Alternative 2 that would be competed in shorter timeframe and with greater effectiveness with respect to reduction of petroleum COC in the source areas. Alternative 3 would likely have a lower short-term effectiveness when compared to Alternative 2 and would have higher short-term effectiveness than Alternative 1.

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The soil vapor extraction system would need to be operated over an estimated period of approximately 10 years, and will reduce the impacts to soils by removing a majority of petroleum COCs (VOCs and SVOCs) contaminants in the petroleum source areas of the Site.

5.4.6 Implementability

Alternative 1 Comparisons- Implementability

Alternative 1 is the quickest to implement and also the simplest alternative to implement. Since, this alternative includes no active remediation with only ECs and ICs that would require additional fencing and a secure access gate to limit access to the Site to protect human health, even if the Site was not redeveloped.

Alternative 2 Comparisons- Implementability

Alternative 2 is technically implementable and the least complicated over the 1.5 to 2 year period of time to complete due to the excavation and disposal requirements to address the petroleum spill source areas. This alternative could be integrated with the City of Rome's or private developer's future re-development plans and could be completed prior to any future re-development construction work, or concurrent with future redevelopment. The risks associated with worker health and safety, Site security, elevated noise level, increased truck and construction equipment traffic, and potential off-Site migration of dust contaminants is also the highest for this alternative during the active remediation when compared to the other alternatives. This alternative also includes a limited groundwater extraction from the open excavation areas during the soil removal.

Therefore, this alternative would be the easier to implement than alternative 3 due to the shorter duration of active remediation requirements to physically complete the work. Alternative 2 is the easiest remediation to implement over the shortest period of time when compared to Alternative 3. Alternative 1 is easiest to implement but does not remediate the petroleum impacts.

Alternative 3 Comparisons- Implementability

Alternative 3 is technically implementable and can be implemented prior to future re-development or concurrently with redevelopment. The level of potential risks associated with worker health and safety, Site security, elevated noise level, lack of construction equipment traffic, and less risk of potential off-Site migration of dust contaminants is lower for this alternative during the active remediation when compared to Alternative 3. Alternative 3 is more difficult to implement when compared to Alternative 2. Since, extraction wells need to be installed with electric power supply and enclosures for the soil vapor system equipment. The soil vapor extraction system wells and trenches for In Situ remediation is more difficult to implement when compared to Alternative 2. Alternative 1 is easiest to implement but does not remediate the petroleum impacts.

5.4.7 Estimated Cost

A comparison of the estimated cost to complete each of the alternatives is presented in the following text. The preliminary cost estimates for each alternative are list in Table 1.

Alternative 1 Comparisons- Estimated Cost

Implementation of alternative 1 would result in the lowest cost when compare to the other alternatives. However, this alternative only includes ECs and ICs without active remediation. Therefore, without active remediation remedial goal for petroleum source area cleanup and protection of Human Health and the Environment would not be achieved after implementation of this alternative. The estimated cost includes additional fencing and a locking gate to limit Site assess with signage and a Site groundwater restriction. The estimate capital cost for alternative 1 is $40,000 with annual cost of $1,500. The total present worth is $40,000. In addition, the Site could not be developed for commercial use, and this remedy would substantially reduce the value of this Site and as a result would be adversarial to future re-development in this BOA designated zone.

Alternative 2 Comparisons- Estimated Cost

Alternative 2, which includes an excavation of soils from two petroleum impacted source areas to depths ranging from 12 to 15 feet would be required to remove essentially all of the impacted soils. The estimated cost also includes transportation and off-Site disposal of impacted soils and groundwater. Clean imported soil will be used to backfill the source area excavations. The estimated capital cost for this alternative is $240,000 and total present worth is the same. This alternative is the less expensive than alternative 3 and more expansive compared to Alternative 1. This alternative is the cost effective when compared to the other alternatives.

Alternative 3 Comparisons- Estimated Cost

The estimated capital cost for Alternative 3, which includes a soil vapor extraction for treatment of petroleum impacted soil in two source areas with ECs and ICs, is $400,000 with annual cost of $18,335. Therefore, the total present worth is $400,000. This Alternative includes a soil vapor extraction system for In Situ treatment of the petroleum impacted soils in soil source area. The cost estimate has been calculated with this alternative implemented for the existing conditions at the Site. Since, re-development plans are not known at this time. The estimated cost to implement Alternative 3 is greater than Alternatives 1 and 2.

5.4.8 Land Use

The City of Rome encourages economic development and re-development land use of vacant urban lands and brownfield to be put back on the tax rolls. A comparison of the land use criteria for each of the alternatives is presented in the following text.

Alternative 1 Comparisons-Land Use

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Since Alternative 1 may not permit any reuse of the Site due to surface petroleum contamination, this Alternative is inconsistent with the land use criteria.

Alternative 2 Comparisons-Land Use

This alternative would allow land use to occur prior to or during future re-development. The active remediation would require approximately three weeks and the complete cleanup would require approximately 1.5 to 2 years to demonstrate groundwater compliance.

Alternative 3 Comparisons-Land Use

This alternative would allow land use to occur prior to or during future re-development. The active remediation would require approximately 10 years and 5 years would be required to demonstrate groundwater compliance.

5.4.9 Green and Sustainable Remediation Principles

Planning and comparisons for Green and sustainable remediation principle comparisons were evaluated for Alternatives 1 through 3. Significant benefit to the environment with application of green remediation concepts can be realized at the remedy selection phase. Several factors are considered when selecting a remedy and sustainability/green remediation is an aspect of one or more of the existing criteria. Therefore, green and sustainable concepts are used to support selection of the best remedy for a site. The consideration of sustainability in remedy selection is consistent with existing statutes, regulations, and guidance.

Green remediation concepts and techniques will be considered during all stages of the proposed remediation program, to long-term site management obligations with the goal of improving the sustainability of the cleanup. The major green remediation concepts and green remediation techniques below will be considered and used to the extent feasible by remedial parties, EPA and NYSDEC staff.

Green Remediation Concepts

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term when choosing a site remedy;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.
- Reduce greenhouse gases

Green Remediation Techniques

City of Rome has evaluated and incorporated green remediation concepts as part of the ABCA remedies evaluation and will attempt to implement the green remediation techniques below that may apply to the planned remediation.

- An attempt to use of renewable energy and/or the purchase of renewable energy credits (RECs) or a combination of the two techniques to offset 100% of the electricity demand at the site.[1]
- Reduce vehicle idling. All vehicles, both on and off road (including construction equipment) will be shut off when not in use for more than 5 minutes, consistent with 6 NYCRR Part 217 Motor Vehicle Emissions, Subpart 217-3 Idling Prohibition for Heavy Duty Vehicles.
- Beneficially reuse materials that would otherwise be considered a waste (e.g. crushed clean concrete as excavation backfill soil).
- Use of Ultra Low Sulfur Diesel (ULSD).
- Minimize habitat disturbance and create or enhance habitat or usable land
- Prevent long-term erosion, surface runoff, and off-site water quality impacts
- Encourage development and evaluation of low energy alternatives such as enhanced bioremediation, phytoremediation, permeable reactive barriers (PRBs), source removal with monitored natural attenuation (MNA), enhanced attenuation of chlorinated organics (EACO), engineered wetlands, and remedies which can be driven to MNA or monitoring only (e.g., remedies which will not need external power indefinitely)
- Address sources more aggressively to reduce long-term operation and maintenance of treatment or containment systems
- Reuse and Recycle construction and demolition (C&D) debris and other materials Maximize beneficial use of materials that would otherwise be considered a waste
- Integrate remedial design with contemplated reuse of site
- The proposed EPA-funded remediation is compatible with green remediation strategies. Certified clean recycled crushed concrete will be used to backfill excavation at the site. The use of recycled crushed concrete backfill from a local source, such as Callanan Industries Inc., locate approximately five miles outside the city of Rome. The use of the recycled crushed concrete is a sustainable practice that reduces the mining of other natural sources for clean fill. The face that the source for clean fill will be local will minimize the transportation effort and reduce the carbon footprint and greenhouse gas and diesel particulate emissions. The proposed EPA- Funded remediation would also follow the EPA's New York Code of Rules and Regulations Subpart 217-3 Idling Prohibition for Heavy Duty Vehicles. This will reduce the emissions of the vehicles, including the excavation equipment, being used throughout the project. By ensuring this regulation is being adhered to, the cost of fuel allocated for this project would be greatly reduced; as well as, the amount of carbon emissions being emitted throughout the life of the project.

A comparison of the land use criteria for each of the alternatives is presented in the following text.

[1] Purchase of "green Power" through an energy services company (ESCO) generally costs less than 0.5% of the overall operation and maintenance cost of a remedy. This cost may be off-set by more efficient designs.

Alternative 1 Comparisons-Green and Sustainable Remediation

Since Alternative 1 may not permit any reuse or enhancement of ecological habitat, social goals, and economy due to continued vacant use and surface soil contamination. Therefore, this alternative ranks last for green and sustainable remediation as compared to the others.

Alternative 2 Comparisons-Green and Sustainable Remediation

This alternative would use the most fuel energy in the excavation equipment and during truck transportation to remove soils that are petroleum impacted and import clean soils for backfill. Emissions to the air from the same construction and transportation equipment would also results in the highest carbon foot print for this remedy. An attempt will be made to use re-cycled crushed concrete in place of natural gravel backfill in the excavations. This completed remedy would allow for Site reuse, and enhancement of ecological habitat, social goals, and local economy. This alternative ranks below Alternative 3 as compared for green and sustainable remediation.

Alternative 3 Comparisons-Green and Sustainable Remediation

This alternative would require the greatest use of electric power consumption and O&M during the long term operation of the soil vapor extraction system during an approximate 10 year duration. Therefore, Alternative 3 ranks below Alternatives 1 and 2 as compared for green and sustainable remediation.

6.0 RECOMMENDATIONS

The City of Rome has evaluated the remedial alternatives in this ABCA, the implementation of these technologies, and the resources required. Based on the results of the analysis, Alternative 2 is considered the most technically feasible and cost effective alternative, which achieves cleanup of the petroleum source areas, protection of human health and the environment with ease of long-term maintenance. Alternative 2 includes: excavation and off-Site disposal of petroleum impacted soils from two source areas with long term ECs and ICs.

This proposed remedial program will reduce potential short term and long-term exposures to the on-Site contaminants by removing the petroleum soil source areas from the Site and limited impacted groundwater during the active remediation. This will significantly eliminated potential exposure to pathways. The removal of the petroleum source soils also reduces the volume and toxicity of the most contaminated soils and coupled with ECs and ICs provides a high degree of reduction of both potential migration and reduction of contaminants.

While low level contaminants will remain at the Site, the remedial objectives will be met to the extent practicable in a cost effective manner through the implementation of Alternative 2 and this alternative will be protective of human health and the environment.

Alternative 2 will also provide an effective long-term and permanent remedy for the Site by a reduction of volume of contaminants. The proposed excavation and off-site disposal will reduce the amount of petroleum contaminants at the Site that could result in potential soil vapor

intrusion concerns in the existing building and or future Site buildings. The Alternative 2 scenario is the most effective in the comparative analysis and excessive cost associated with Alternative 3.

Under Alternative 2, excavation activities will extend to approximately 12 to 15 feet below the ground to remove the accessible portion of the petroleum source area soils. The ECs and ICs, will be protective of groundwater by reducing further potential contribution of petroleum contaminants into the groundwater.

The use of ECs and ICs to protect human health and the environment against the residual petroleum contaminants is also required for this Alternative. ICs would include implementation of an environmental easement to restrict land use to ground floor commercial operations, prohibit the use of groundwater beneath the Site, and require the development and implementation of a Site Management Plan, which would include an Excavation Work Plan to be implemented during any future intrusive (excavation) activities. The primary EC would be controls during Site active remediation that would be recommended to include: (1) dust control measures as detailed in the community air monitoring plan (CAMP), (2) limiting access and construction hours during redevelopment activities, and (3) installing fencing and signs around the Site to deter trespassers from the Site while the remedial work is being implemented.

Since low level petroleum contaminants may remain at the Site, it will also be necessary to institute a groundwater monitoring program to monitor the Site for a period of 6 months after the active remedial activities are complete. If there are no significant increases to current conditions after this monitoring period, then an evaluation will be undertaken to determine if the groundwater monitoring program can be discontinued. Existing wells will be used to perform monitoring unless wells are destroyed during the cleanup. The need to install new wells will be evaluated during remedy design phase for this project. The proposed remedial Alternative 2 is consistent with the proposed end use of the Site, which includes commercial or restricted residential development. Alternative 2 will be protective of human health and the environment.

Therefore, Alternative 2 summary of proposed remedial action will consist of:

- Implementation of a Citizen Participation Plan.

- Performance of a Community Air Monitoring Program for particulates and volatile organic carbon compounds / odors.

- Achievement of petroleum source area cleanup to address the current NYSDEC petroleum spill through implementation of a source area soil removal excavation with limited groundwater removal and long term Engineering and Institutional Controls required pursuant to an SMP and EE.

- Collection and analysis of confirmatory end-point samples in the petroleum source soil removal areas to determine the performance of the remedy with respect to attainment of applicable levels of remediation.

- Import of materials to be used for excavation backfill in compliance with remediation requirements and in accordance with NYSDEC DER-10 guidance. Potential re-use of

Site soils as backfill and re-cycled crushed concrete in accordance with NYSDEC DER-10 and DER-34 guidance.

- Excavation and removal of petroleum impacted soils with disposal at permitted facilities in accordance with applicable laws and regulations for handling, transport, and disposal. Sampling and analysis of excavated media as required by disposal facilities and NYSDEC. Appropriate segregation of excavated soils and materials on-Site.

- Screening of excavated soil/fill during intrusive work for indications of contamination by visual means, odor, and monitoring with a PID.

- Performance of all activities required for the remedial action, including permitting requirements and pretreatment requirements, in compliance with applicable laws and regulations.

- Submission of an approved Site Management Plan (SMP) for long-term management of residual contamination, including plans for operation, maintenance, monitoring, sampling, inspection and certification of Engineering and Institutional Controls and reporting at a specified frequency.

- Recording of an Environmental Easement (EE) that includes a listing of Engineering Controls and a requirement that management of these controls must be in compliance with an approved SMP; and Institutional Controls including prohibition of the following: (1) use of groundwater without treatment rendering it safe for the intended use; (2) disturbance of residual contaminated material unless it is conducted in accordance with the SMP; and (3) higher level of land usage without EPA, NYSDEC and NYSDOH approval.

Table 1 - Estimated Total Present Worth: Alternatives 1 through 3

Alternative	Description	Capital Cost	Annual Costs Projected For 30 Years	Total Present Worth
1	No Further Action	$40,000	$1,500	$40,000
2	Excavation and off-Site disposal of contaminated media. Import clean soils.	$240,000	$0.00	$240,000
3	Soil Vapor Extraction System for In Situ Treatment of Petroleum Soils Source Area	$400,000	$18,335	$400,000

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Table 2 – Evaluation Criteria Rank: Alternatives 1 through 3

Evaluation Criteria	Alternative 1 No Action	Alternative 2 Removal of Petroleum Contaminated Soils From Source Areas	Alternative 3 Soil Vapor Extraction for Treatment of Source Area Soils
Protection of Human Health and the Environment	1	5	2
Compliance with SCGs	1	5	2
Long-term Effectiveness and Permanence	1	5	2
Reduction of Toxicity, Mobility, or Volume	1	5	2
Short-term Effectiveness	1	2	3
Implementability	5	1	2
Cost	5	1	4
Land Use	1	5	2
Green and Sustainable	1	2	3
Totals	17	31	22

Ranking Scale: 5 equals the highest level that meets criteria and 1 equals lowest level
Note: Alternative 2 has the highest rank based on the evaluation criteria and is the selected alternative for the remedy.

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Attachment G – Documentation of Nonprofit Status

Not Applicable.

Attachment H – Documentation of Applicant Eligibility if Other Than City

Not Applicable.

Attachment I – Justification for Cleanup Cost Share Waiver

Not Applicable.

Attachment J – Property Specific Determination Request

Not Applicable.

Attachment K

Petroleum Eligibility Documentation

From: Struble, John [mailto:Struble.John@epa.gov]
Sent: Monday, December 14, 2015 9:50 AM
To: Guttenplan, Pattie <pguttenplan@BERGMANNPC.com>

Subject: RE: Eligibility Letter-EPA Brownfield Clean Up Grant-City of Rome,NY-RE: NYSDEC Spill No. 8802056 - Rome Turney Site

Hello, Ms. Guttenplan.

Please be advised, EPA does not require additional information. Also, the last email that I sent you is the determination letter.

Thanks.

John Struble
Project Officer
USEPA
Brownfields Section
290 Broadway
New York, NY 10007
Phone: 212-637-4291 (NY); 201-797-3317 (NJ)
Fax: 212-637-3083 (NY)

From: Guttenplan, Pattie [mailto:pguttenplan@BERGMANNPC.com]
Sent: Monday, December 14, 2015 9:16 AM
To: Struble, John <Struble.John@epa.gov>
Cc: Matt Andrews <mandrews@romecitygov.com>; Diana J. Samuels <dsamuels@romecitygov.com>; Baptiste, Kimberly <kbaptiste@BERGMANNPC.com>; Nicholson-Dourdas, Jane <jdourdas@BERGMANNPC.com>

Subject: RE: Eligibility Letter-EPA Brownfield Clean Up Grant-City of Rome,NY-RE: NYSDEC Spill No. 8802056 - Rome Turney Site

Hello Mr. Struble,
Thank you for your quick response. As a point of clarification, I just want to make sure that at this point, you do not require any further information from us. Also, do you have any estimate of when we may receive a determination letter?
Thank you for your attention to this matter.

Pattie Guttenplan

From: Struble, John [mailto:Struble.John@epa.gov]
Sent: Monday, December 14, 2015 8:32 AM
To: Guttenplan, Pattie <pguttenplan@BERGMANNPC.com>
Cc: Matt Andrews <mandrews@romecitygov.com>; Diana J. Samuels <dsamuels@romecitygov.com>; Baptiste, Kimberly <kbaptiste@BERGMANNPC.com>; Nicholson-Dourdas, Jane <jdourdas@BERGMANNPC.com>

Subject: RE: Eligibility Letter-EPA Brownfield Clean Up Grant-City of Rome,NY-RE: NYSDEC Spill No. 8802056 - Rome Turney Site

Hello, Mr. DiBari and Ms. Guttenplan.

Please be advised, the preliminary review of the subject site that I performed can only be used to identify some potential problems with eligibility at this point in time. The preliminary review of this site did not show that the site is not an eligible brownfield. This review does not guarantee a requestor that the site will be determined to be eligible, should it be reviewed by EPA as part of a grant-proposal review in the future. For example, the attorneys who review our grant proposals may find information, during the proposal review process, that is not currently available and this could potentially change whether or not the site is determined to be eligible by EPA at a later date. In other words the site could appear to be O.K. now, which it does, but later it could possibly not actually be eligible.

Please don't hesitate to contact me, if you have questions.

Thanks.

John Struble
Project Officer
USEPA
Brownfields Section
290 Broadway
New York, NY 10007
Phone: 212-637-4291 (NY); 201-797-3317 (NJ)
Fax: 212-637-3083 (NY)

From: Guttenplan, Pattie [mailto:pguttenplan@BERGMANNPC.com]
Sent: Friday, December 11, 2015 4:21 PM
To: Struble, John <Struble.John@epa.gov>
Cc: Matt Andrews <mandrews@romecitygov.com>; Diana J. Samuels <dsamuels@romecitygov.com>; Baptiste, Kimberly <kbaptiste@BERGMANNPC.com>; Nicholson-Dourdas, Jane <jdourdas@BERGMANNPC.com>; Guttenplan, Pattie <pguttenplan@BERGMANNPC.com>

Subject: RE: Eligibility Letter-EPA Brownfield Clean Up Grant-City of Rome,NY-RE: NYSDEC Spill No. 8802056 - Rome Turney Site

December 11, 2015

John Struble, Project Officer
USEPA
Brownfields Section
290 Broadway
New York, NY 10007

Eligible Petroleum Brownfield Site Determination

Re: Eligible Petroleum Brownfield Site Determination
City of Rome USEPA Brownfields Cleanup Grant Application
Former Rome-Turney Radiator Company Site
109 Canal Street, Rome, NY 13440

Dear Mr. Struble,

The City of Rome as part of Step 3 of the Brownfield Opportunity Area Program has developed a redevelopment strategy for the above referenced site. In keeping with that strategy, we will be making an application to the United States Environmental Protection Agency (USEPA) for a Brownfields Cleanup Grant for $200,000 to remediate environmental impacts associated with petroleum contamination at the Former Rome-Turney Radiator Company site at 109 Canal Street, Rome, NY. The EPA grant monies will be applied to remediate the two identified petroleum spill areas at the site under NYSDEC Petroleum Spill No. 8802056. This site represents a priority brownfield redevelopment opportunity for the City of Rome. As part of that application, we are making a request for a Petroleum Eligibility Determination.

Please find attached the Brownfields Property Approval –Petroleum Contamination Form that you sent. We have completed it and look forward to your review and comment.
Should you have a questions, please don't hesitate to contact:
Diana Samuels at : dsamuels@romecitygov.com or
Pattie Guttenplan at: pguttenplan@bergmannpc.com
We look for forward to hearing from you and to a positive finding as regards petroleum eligibility.

Regards,

Jake DiBari, Director Community and Economic Development
City of Rome
198 N. Washington Street
315-339-5450 office
315-838-1167 fax
jdibari@romecitygov.com

Attachments

Name of Organization and Point of Contact: .. The City of Rome Diana J, Samuels, Project Director Phone Number: (315) 339-7677 Email: dsamuels@romecitygov.com	**Brownfields Property Approval** **EPA Region 2** **290 Broadway, 18th FL, New York, NY 10007**	**PETROLEUM CONTAMINATION**

I - Property Information

Name of Property: **Rome-Turney Radiator Compnay Site**

Address: **109 Canal Street, Rome NY 13440**

	City: **Rome**
Current Owner: **City of Rome**	

II - Status and History of Contamination

Type of Contamination (mark one) : Hazardous Substances: _____ Petroleum: ___**X**_____

If contamination is co-mingle (hazardous substances and petroleum) please mark hazardous substances.

Current Use of Property: **The property is not being used currently.**	Period of operation: **1905-1992 Rome-Turney Radiator Company-manufacturing radiator for cars. 1992-2014 light manufacturing and warehousing for various companies.**	Total Years of Operation: **99**

Describe Environmental Concerns (if known): **The environmental concerns are related to the known petroleum spill (Spill No. 8802056) which has contaminated the soild and groundwater on the site.**

How the property became contaminated? (if known): **The site was given a NYSDEC (New York State Department of Environmental Conservation) Spill No (8802056) in June 1988 when a release of petroleum from a fuel storage tank was discovered and reported to the NYSDEC. The source of the petroleum contamination is from former on-site bulk storage and leaking underground storage tanks.**

Describe the nature and extent of contamination (to the extent possible): **The site is contaminated by petroleum. There are two distinct areas on the site: one near the north side and one near the entrance off of Canal Street.**

III - Property Eligibility for Funding

Is the property listed or proposed to be listed on the National Priority List? YES _____ NO ___**X**_____

Is the property subject to unilateral administrative orders, court orders, administrative orders on consent, or judicial consent decrees issued to or entered into by parties under CERCLA YES _____ NO ____**X**_____

Is the property subject to the jurisdiction, custody, or control of the U.S. governmentt? YES _____ NO ___**X**_____

IV - Property Ownership Eligibility

IV. 1 - CERCLA § 107 Liability

Are you eligible for one of the following CERCLA liability protections or defenses: (1) an innocent landowner; (2) a bona fide prospective purchaser (BFPP), (3) a contiguous property owner; or (4) a local or state government entity that acquired the property involuntarily through bankruptcy, tax delinquency, or abandonment, or by exercising its power of eminent domain.

YES _____**X**_____ NO _____

If the answer is YES, please explain why? **(4) the City of Rome ia a local government entity that acquired the property involuntarily through tax delinquency.**

IV. 2 - Enforcement Actions

The information provided in this section will be verified. EPA Region 2 will conduct an independent review of information related to the organization's responsibility for the contamination at the property.

Identify known ongoing or anticipated environmental enforcement actions related to the property. **There is no known ongoing or anticipated environmental enforcement actions related to this property.**

Describe any inquiries or orders from federal, state, or local government entities that you organization is aware of regarding the responsibility of any party (including your organization) for the contamination at the property. **The petroleum contamination was reported in June 1988, when the release from an underground storage tank was discovered. This spill was given the Spill No. 8802056. The Rome-Turney Radiator Company had owned and operated ths site since 1905 and therefore can be considered the party resonsible for the contamination.**

IV. 3 - Information on Liability and Defenses/Protections Where Organization Does NOT Own the Property

Complete this section ONLY if your organization DOES NOT own the property.

Did your organization arrange for the disposal of hazardous substances at the property or transport hazardous substances to the property?

YES _____ NO _____

Did your organization cause or contribute to any releases of hazardous substances at the property ?

YES _____ NO _____

Describe your relationship with the owner and the owner's role in the work to be performed.

How you will gain access to the property?

YES _____ NO _____

IV. 4 - Information on Liability and Defenses/Protections Where Organization Owns the Site or Will Own the Site During the Performance of the Assessment Cooperative Agreement

Complete this section ONLY if your organization own the property to be assessed or will own the property at some point during the performance of the cooperative agreement.

IV. 4.1 Information on the Property Acquisition

How you acquired or will acquire ownership (e.g., by negotiated purchase from a private individual, by purchase or transfer from another governmental unit, by foreclosure of real property taxes, by eminent domain, or other (describe)). **The City of Rome acquired the property through tax foreclosure.**

Indicate the date you acquired or will acquire the property: **The City of Rome acquired the property on July 16, 2014**

The name and identity of the party from whom you acquired or will acquire ownership (i.e., the transferor) **: Property was acquired from Rollerad Corp.**

Describe all familial, contractual, corporate, or financial relationships or affiliations you have or had with all prior owners, operators, or transporters of the property (including the person or entity from which you acquired or will acquire the property). **The City has had no known familial, contractural, corporate, or financial relationships or affiliations with any of the prior owners, operators, or transporters of the property.**

IV. 4.2 Timing and/or Contribution Toward Hazardous Substances Disposal

Identify whether all disposal of hazardous substances at the property occurred before you acquired (or will acquire) the property: **The spill of petroleum was reported in June 1988, long before the acquisiton date of July 16, 2014**.

Did you cause or contribute to any release of hazardous substances at the property before acquire the property?

YES _____ NO __**X**____

Did you, at any time, arrange for the disposal of hazardous substances at the property or transport hazardous substances to the property?

YES _____ NO ____**X**___

IV. 4.3 Pre-Purchase Inquiry

Describe any inquiry by you or others into the previous ownership of the propery you acquired (or will acquire). **The only known inquiry into the previous ownership of the property was an on-line property description report from the Oneida County Records.**

Describe uses and environmental conditions of the property prior to taking ownership. **The site was owned and operated by the Rome-Turney Radiator Company from 1905 until 1992, a manufacturing plant for car radiators, until the factory closed. Subsequently, it has been used for light manufacturing and storage by several different companies. In June, 1988, it was given a petroleum Spill No.(8802056) when a release of petroleum from fuel storage tanks was discovered and reported to the the New York State Department of Environmental Conservation.**

The name and identity of the party from whom you acquired or will acquire ownership (i.e., the transferor). **The Rollerad Corporation**

Indicate any type of environmental site assessments (e.g., ASTM E1527-05 Phase I) performed at the property, the dates of each assessment, and the entity for which they were performed (state whether the assessment was performed specifically for you, or if not, the name of the party that had the assessment performed and that party's relationship to you). **A Phase I Environmental Site Assessment was prepared for the City of Rome, which is the current owner and applicant. This Assessment was completed on August 24, 2015. A Phase II Environmental Site Assessment was completed in draft form in December 2015.**

Who performed the All Appropriate Inquiries investigation or Phase I environmental site assessment and identify his/her qualifications to perform such work. **Bergmann Associates performed the investigations and prepared the Phase I Environmental Site Assessment and the Draft Phase II Environmental Site Assessment.**

Was the original AAI investigation or Phase I environmental site assessment conducted more than 180 days prior to the date you acquired the property?

YES _____ NO **__X**_____

Did you conduct the appropriate updates of the original assessment within 180 days prior to your acquisition of the property in order to take advantage of the bona fide prospective purchaser, innocent landowner, or contiguous property owner provision.

YES **___X**_____ NO _____

IV. 4.4 Post-Acquisition Uses

Describe all uses to which the property has been put since you acquired ownership (or the uses that you anticipate once you acquire the property) through the present, including any uses by persons or entities other than you. **The property has remained unused since being acquired by the City of Rome.**

Provide a timeline with the names of all current and prior users during the time of your ownership; the dates of all uses; the details of each use, including the rights or other reason pursuant to which the use was claimed or taken (e.g., lease, license, trespass); and your relationship to the current and prior users. **Not Applicable-the property has remained unused since being acquired by the city.**

Describe in detail the specific appropriate care that you exercised (or if you have yet to acquire the property, that you will exercise upon acquiring the property) with respect to hazardous substances found at the site by taking reasonable steps to:
1. Stop any continuing releases;
2. Prevent any threatened future release; and
3. Prevent or limit exposure to any previously released hazardous substance.

The property has remained unused since being acquired by the city, therefore:
1. There is no user on-site to create or exacerbate any releases
2. Any threatened future release has been prevented.
3. Exposure to any previously released hazardous substance has been prevented and /or limited.

Describe in detail your commitment to:
1. Comply with all land-use restrictions and institutional controls;
2. Assist and cooperate with those performing the assessment and provide access to the property;
3. Comply with all information requests and administrative subpoenas that have or may be issued in connection with the property; and
4. Provide all legally required notices.

1.The property is zoned commercially and it is the intent of the city to encourage redevelopment that would comply with existing zoning or take steps to revise the standards to allow for the best use of the property.
2.The City of Rome is currently in Step 3 of the NYSDEC Brownfield Opportuity Area Program that includes this property. A Nomination Study that included this site was completed in September 2012, as part of Step 2 of the BOA Program. A Phase I Environmental Site Assessment was completed on August 24, 2015. A draft Phase II Environmental Site Assessment was completed in December 2015.
3. A draft application, including a draft ABCA, was made available to the public as part of a public notfication for an application for an EPA Brownfield Grant.
4. A Public Notice was advertised in the local newspaper on December 3, 2015.

V - Petroleum Property Eligibility Determination

For properties located in New Jersey, the New Jersey Department of Environmental Protection will make the petroleum property eligibility determination.
For properties located in New York, Puerto Rico, U.S. Virgin Islands, and Tribes; EPA Region 2 will make the petroleum property eligibility determination.

V. 1 - Current and Immediate Past Owners

Identify the current and immediate past owner of the property. **The current owner is the City of Rome. The immediate past owner is Rollerad Corporation.**

V. 2 - Acquisition of the Property

Identify when and by what method the current owner acquired the property (e.g., purchase, tax foreclosure, donation, eminent domain). **The City of Rome acquired hte property on July 16, 2014 by tax foreclosure.**

V. 3 - No Responsible Party for the Property

Did the current **and** immediate past owner (which includes, if applicable, your organization) dispense or dispose of petroleum or petroleum product, or exacerbated the existing petroleum contamination at the property?

YES _____ NO __X_____

Did the current **and** immediate past owner (which includes, if applicable, your organization) take reasonable steps to reduce or control the petroleum contamination at the property?

YES ___X____ NO _____

V. 4 - Assessed by a Person Not Potentially Liable

Did your organization dispense or dispose of petroleum or petroleum product, or exacerbated the existing petroleum contamination at the property?

YES _____ NO __X____

Did you take reasonable steps to reduce or control the petroleum contamination at the property?

YES ____X____ NO _____

V. 5 - Relatively Low Risk

Is the property considered as of "relatively low risk" compared to other petroleum or petroleum product-only contaminated properties in the state in which the property is located?

YES __X_____ NO _____

Is the property receiving or using Leaking Underground Storage Tank (LUST) trust fund monies?

YES _____ NO _____X___

Is there a responsible party (including your organization) identified for the property through, either:
1. A judgment rendered in a court of law or an administrative order that would require any person to assess, investigate, or clean up the property; or
2. An enforcement action by federal or state authorities against any party thatwould require any person to assess, investigate, or clean up the property; or
3. A citizen suit, contribution action, or other third-party claim brought against the current or immediate past owner, that would, if successful, require the assessment, investigation, or cleanup of the property.

YES _____ NO __X_____

V. 6 - Subject to RCRA

Is the property subject to any order under section 9003(h) of the Solid Waste Disposal Act?

YES _____ NO __X_____

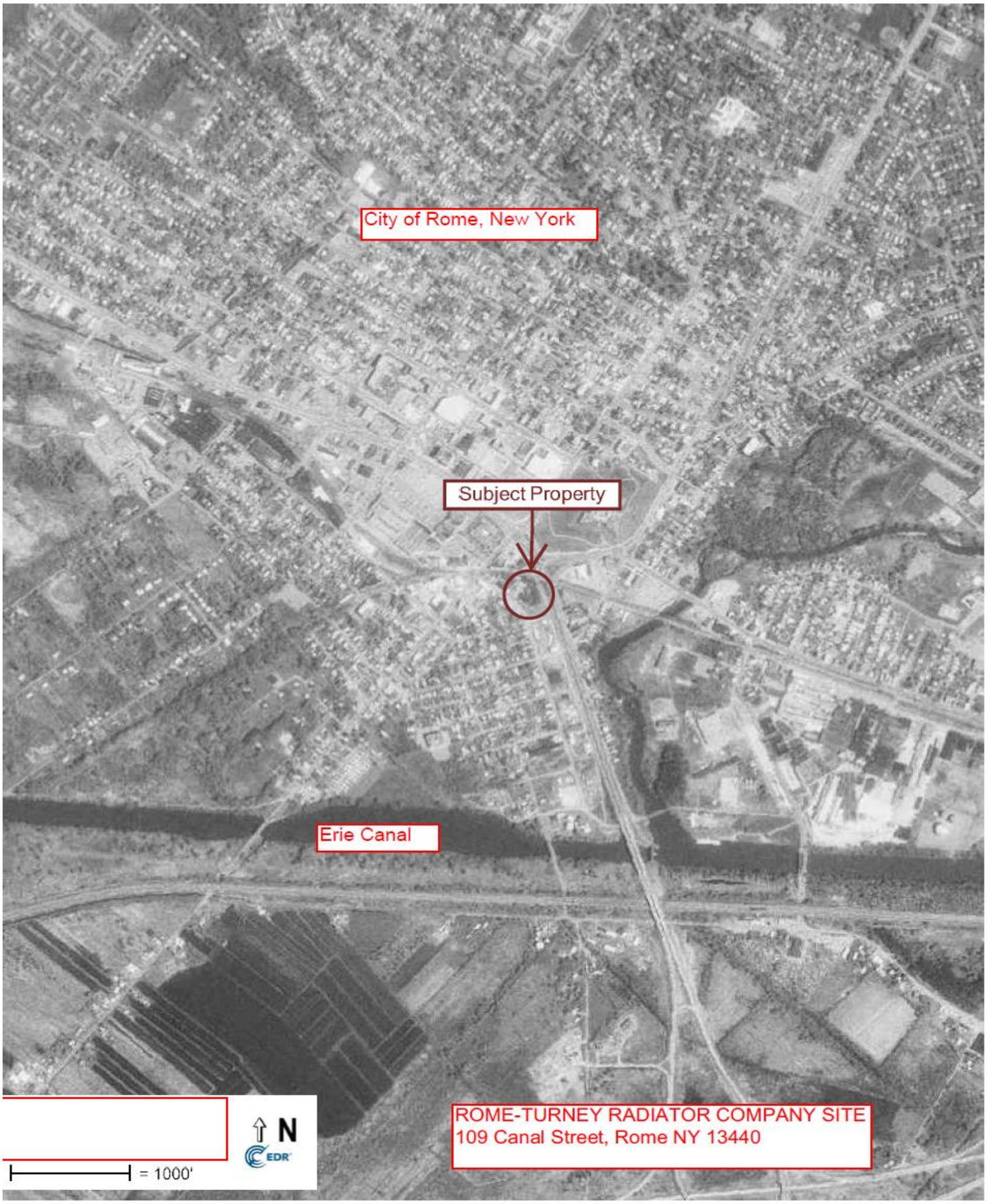
V. 7 - Financial Viability of Responsible Parties

For any current or immediate past owners identified as responsible for the contamination at the property, provide information regarding whether they have the financial capability to satisfy their obligations under federal or state law to assess, investigate, or clean up the property? **Neither the current nor the immediate past owner is responsible for the contamination of the site.**

If a responsible party is identified above, EPA or the state must next determine whether that party is viable. If any such party is determined to be viable, then the petroleum-contaminated site may not be eligible for funding

VI - Property Location Map

Provide a property location map. The map cover a radius of 2 miles. **See attached map below.**


City of Rome, New York
Subject Property
Erie Canal
N
= 1000'
ROME-TURNEY RADIATOR COMPANY SITE
109 Canal Street, Rome NY 13440

OMB Number: 4040-0004
Expiration Date: 8/31/2016

Application for Federal Assistance SF-424

* 1. Type of Submission:
- [ ] Preapplication
- [x] Application
- [ ] Changed/Corrected Application

* 2. Type of Application:
- [x] New
- [ ] Continuation
- [ ] Revision

* If Revision, select appropriate letter(s):

* Other (Specify):

* 3. Date Received: 12/18/2015

4. Applicant Identifier:

5a. Federal Entity Identifier:

5b. Federal Award Identifier:

State Use Only:

6. Date Received by State:

7. State Application Identifier:

8. APPLICANT INFORMATION:

* a. Legal Name: The City of Rome

* b. Employer/Taxpayer Identification Number (EIN/TIN): 15-6000414

* c. Organizational DUNS: 0772976610000

d. Address:

* Street1: 198 N Washington Street
Street2:
* City: Rome
County/Parish:
* State: NY: New York
Province:
* Country: USA: UNITED STATES
* Zip / Postal Code: 13440-5815

e. Organizational Unit:

Department Name:

Division Name:

f. Name and contact information of person to be contacted on matters involving this application:

Prefix:
* First Name: Diana
Middle Name:
* Last Name: Samuels
Suffix:

Title: Planning Assistant

Organizational Affiliation:

* Telephone Number: (315)339-7677
Fax Number: (315)339-7667

* Email: dsamuels@romecitygov.com

Application for Federal Assistance SF-424

*** 9. Type of Applicant 1: Select Applicant Type:**

C: City or Township Government

Type of Applicant 2: Select Applicant Type:

Type of Applicant 3: Select Applicant Type:

* Other (specify):

*** 10. Name of Federal Agency:**

Environmental Protection Agency

11. Catalog of Federal Domestic Assistance Number:

66.818

CFDA Title:

Brownfields Assessment and Cleanup Cooperative Agreements

*** 12. Funding Opportunity Number:**

EPA-OSWER-OBLR-15-06

* Title:

FY16 Guidelines for Brownfields Cleanup Grants

13. Competition Identification Number:

Title:

14. Areas Affected by Project (Cities, Counties, States, etc.):

Add Attachment | Delete Attachment | View Attachment

*** 15. Descriptive Title of Applicant's Project:**

Rome-Turney Radiator Company Site - Cleanup for petroleum contamination.

Attach supporting documents as specified in agency instructions.

Add Attachments | Delete Attachments | View Attachments

Application for Federal Assistance SF-424

16. Congressional Districts Of:

* a. Applicant: NY-022 * b. Program/Project: NY-022

Attach an additional list of Program/Project Congressional Districts if needed.

Add Attachment | Delete Attachment | View Attachment

17. Proposed Project:

* a. Start Date: 10/01/2016 * b. End Date: 09/30/2017

18. Estimated Funding ($):

* a. Federal	200,000.00
* b. Applicant	40,000.00
* c. State	0.00
* d. Local	0.00
* e. Other	0.00
* f. Program Income	0.00
* g. TOTAL	240,000.00

*** 19. Is Application Subject to Review By State Under Executive Order 12372 Process?**

☐ a. This application was made available to the State under the Executive Order 12372 Process for review on .

☐ b. Program is subject to E.O. 12372 but has not been selected by the State for review.

☒ c. Program is not covered by E.O. 12372.

*** 20. Is the Applicant Delinquent On Any Federal Debt? (If "Yes," provide explanation in attachment.)**

☐ Yes ☒ No

If "Yes", provide explanation and attach

Add Attachment | Delete Attachment | View Attachment

21. *By signing this application, I certify (1) to the statements contained in the list of certifications and (2) that the statements herein are true, complete and accurate to the best of my knowledge. I also provide the required assurances** and agree to comply with any resulting terms if I accept an award. I am aware that any false, fictitious, or fraudulent statements or claims may subject me to criminal, civil, or administrative penalties. (U.S. Code, Title 218, Section 1001)**

☒ ** I AGREE

** The list of certifications and assurances, or an internet site where you may obtain this list, is contained in the announcement or agency specific instructions.

Authorized Representative:

Prefix: * First Name: Pattie

Middle Name:

* Last Name: Guttenplan

Suffix:

* Title: Project Planner

* Telephone Number: 610-834-4080 Fax Number:

* Email: pguttenplan@bergmannpc.com

* Signature of Authorized Representative: Pattie Guttenplan * Date Signed: 12/18/2015